LJ-91-03

SOUTHWEST FISHERIES SCIENCE CENTER

NATIONAL MARINE FISHERIES SERVICE SOUTHWEST FISHERIES SCIENCE CENTER P.O. BOX 271 LA JOLLA, CA 92038

FEBRUARY 1991

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CURRENT YEAR OPERATION PLANS FOR FISCAL YEAR 1991

Compiled by

D. J. Mackett

ADMINISTRATIVE REPORT LJ-91-03

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATION PLANS
FISCAL YEAR 1991

This report presents the FY 1991 Current Year Operation Plans (CYOPs) of the Southwest Fisheries Science Center. Budget summaries for each Task and for each office and laboratory are also presented.

The CYOPs set out the objectives, methodology, resources, activities, events and milestones for each project (Task) to be undertaken by the Center during the fiscal year. In several cases, two or more Tasks may constitute elements of a larger program.

The CYOPs are plans, and as such, represent the best estimates that the staff could make during the fall of 1990. The user is cautioned to use the data only as estimates; details of budget or program changes put into effect since October 1, 1990, can be obtained from the Center Director.

Finally, the information concerning detailed allocations among budget classes (labor, contracts, travel, etc.) presented in this report should be handled cautiously so as to safeguard the Government's competitive procurement process.

David Mackett, Planning Officer
Southwest Fisheries Science Center
P.O. Box 271
La Jolla, California 92038

SWFSC Administrative Report No. LJ 91-03

FORM A: INDEX	NMFS CURRENT YEAR OPERATION PLAN FY 1991	FMC: SWFSC
		PAGE 1 OF 2

OP F#	TITLE	TASK LEADER	FTE	AMOUNT ($K)
050	CENTER SUPPORT	I. BARRETT	16.2	1,234.7
051	SCIENTIFIC SERVICES	D. NEAL	7.75	320.2
052	ITS OPERATION - LA JOLLA	D. ROLL	6.0	333.1
060	SENIOR SCIENTIST	W. PERRIN	2.5	134.3
301	COASTAL E. PAC. POP. BIO. FISH.	J. HUNTER	7.0	359.7
304	FISHERIES ENVIRON. INVEST.	R. M. LAURS	5.0	284.1
318	ECOLOGY & SYSTEMATICS OF FISHES	H. G. MOSER	5.0	231.5
319	COASTAL & PAC. FISH. RES. INV.	R. CHARTER	7.6	402.6
320	SURVEY SYSTEMS DEV. & EVAL.	P. SMITH	5.7	302.3
330	COMM. & REC. FISH. RES. FOR MGT.	L. JACOBSON	5.8	346.3
401	TUNA & LARGE PELAGICS STOCK INV.	N. BARTOO	4.96	310.4
411	MULTISPECIES DATA COLL. & EVAL.	A. COAN	11.0	407.4
421	PELAGIC FISH. & STOCKS EVAL.	G. SAKAGAWA	2.0	136.0
431	PELAGIC ECOSYSTEM MODELLING	P. KLEIBER	2.5	118.4
510	FISH.-MARINE MAMMAL INTER. PROG.	D. DEMASTER	9.25	449.7
520	BIOLOGICAL ASSESSMENT PROGRAM	A. DIZON	10.75	496.4
530	DOLPHIN ECOLOGY PROGRAM	S. REILLY	5.75	285.9
540	COASTAL MARINE MAMMAL PROGRAM	J. BARLOW	5.0	255.0
550	FISH.-DEPENDENT ANALYSIS PROG.	E. EDWARDS	2.0	81.8
601	ANTARCTIC ECOSYSTEM RES. GROUP	R. HOLT	4.5	1,300.0
700	HONOLULU LAB-DIR. OFC. & ADM.	G. BOEHLERT	7.8	409.9
701	DATA MGT. & TECH. SERVICES	D. TIEMAN	13.8	506.7
710	FISH. OCEANOGRAPHY RES. PROG.	G. BOEHLERT	2.8	157.1
720	PELAGIC STOCK ASSESS. PROG.	J. WETHERALL	2.3	127.2
721	PELAGIC ECOSYSTEM PROGRAM	C. BOGGS	2.0	85.8
722	PELAGIC FMP RESEARCH PROG.	R. SKILLMAN	3.5	198.1
723	N. PAC. ALBACORE DRIFTNET IMPAC.	J. WETHERALL	7.4	462.6
724	ECOLOGICAL PHYSIOLOGY PROG.	R. BRILL	1.8	110.5
730	INSULAR STOCK ASSESSMENT	D. SOMERTON	5.9	248.8
731	INSULAR ECOLOGY STUDY	J. POLOVINA	3.0	124.0
732	FISH. ENHANCEMENT & DYNAMICS	J. POLOVINA	5.5	288.8
733	HAWAII STOCK MGT. PROGRAM	I. BARRETT	0	400.0
734	MAHI MAHI AQUACULTURE	I. BARRETT	0	188.0
740	FISHERY MGT. RES. PROG.	S. POOLEY	7.8	330.5
741	WPACFIN	D. HAMM	2.0	104.8
750	MARINE MAMMALS & ENDANGER. SPEC.	W. GILMARTIN	9.9	474.7
800	TIBURON LABORATORY ADMIN.	A. MACCALL	7.5	328.8
811	GROUNDFISH ANALYSIS	W. LENARZ	9.25	402.6
812	GROUNDFISH COMMUNITIES	E. HOBSON	7.0	287.6
813	GROUNDFISH PHYSIOL. ECOLOGY	J. WHIPPLE	6.0	301.6
821	FISHERY MGT. ADVISORIES	A. MACCALL	3.5	267.9
901	PAC. FISH. ENVIRON. GROUP	A. BAKUN	10.1	505.5
984	LOGBOOK & NWHI OBSERVER PROG.	S. POOLEY	2.0	100.0
985	HEARD ISLAND EXPERIMENT	D. DEMASTER	.5	62.3
987	MARINE TURTLE RESEARCH	G. BALAZS	1.0	50.0
988	COASTAL CALIF. DELPHINID SURVEY	J. BARLOW	.37	149.0
		REGIONAL TOTAL		

PPROVAL SIGNATURE: Richard A Neal

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FORM A: INDEX

NMFS
CURRENT YEAR OPERATION PLAN
FY 1991

OP F#	TITLE	TASK LEADER	FTE	AMOUNT ($K)
989	WHALE & BOTTLENOSE DOLPHIN POP.	J. BARLOW	0	78.0
990/ 991	MARINE DEBRIS (MONK SEAL) & "GHOST FISHING" LOBST.	W. GILMARTIN	.8	45.0
	CENTER XXXXXXXX TOTAL		249.78	14,585.6

PROVAL SIGNATURE: Richard A. Neal

FORM B:
LOCATION SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

LOCATION	CYOP REF. #	TASK #	FTE	TOTAL ($K)
LA JOLLA	SWR 050	9WGN40C0	6.0	446.5
		9WGN40L0	6.2	266.0
		9WGN40M0	2.0	214.8
		8L1A1ATT	0.0	54.0
		8L1A1AYF	2.0	62.4
		8L1C1AYF	0.0	191.0
	SWR 051	8L1A1AY0	3.0	132.8
		8L1A1ALT	2.75	92.3
		8L1A1ALL	2.0	95.1
	SWR 052	8L1C1AG0	5.0	283.5
		8L1C1AUP	1.0	49.6
	SWR 060	8L1A5VP1	2.5	134.3
	SWR 301	8L1A3AA0	7.0	359.7
	SWR 304	8L1A4BE0	5.0	284.1
	SWR 318	8L1A3AG0	5.0	231.5
		TOTALS	49.45	2,897.6

FORM B:
LOCATION SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

FMC: SWFSC

LOCATION	CYOP REF. #	TASK #	FTE	TOTAL ($K)
LA JOLLA	SWR 319	8L1A6AH0	7.6	402.6
	SWR 320	8L1A6AJ0	5.7	302.3
	SWR 330	8L1C2AS0	4.5	216.0
		8L1C2AS2	1.3	130.3
	SWR 401	8L1C5AB2	3.96	239.7
		8L1C5AB1	1.0	70.7
	SWR 411	8L1C1AW1	4.5	182.7
		8L1C1VW2	4.9	179.7
		8L1B2CTT	1.6	45.0
	SWR 421	8L1C2A30	2.0	136.0
	SWR 431	8L1C2A20	2.5	118.4
	SWR 510	8L1C4VA1	1.0	59.1
		8L1C4VA2	4.8	224.5
		8L1A6VW0	3.45	166.1
		TOTALS	48.81	2,473.1

FORM B:
LOCATION SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

LOCATION	CYOP REF. #	TASK #	FTE	TOTAL ($K)
LA JOLLA	SWR 520	8L1A5VU1	7.0	307.3
		8L1A5VR4	3.75	189.1
	SWR 530	8L1A6AW1	5.75	285.9
	SWR 540	8L1A5VR1	3.0	190.0
		8L2B1PAA	2.0	65.0
	SWR 550	8L1A6AW2	2.0	81.8
	SWR 601	8L1A6H01	2.0	650.0
		8L1A6H02	1.5	320.6
		8L1A6H03	1.0	96.0
		8L1A6H04	0.0	233.4
	SWR 985	8K6BNC00	0.5	62.3
	SWR 988	8L1A5M03	.37	149.0
	SWR 989	8L1A5M05	0.0	78.0
		TOTALS	28.87	2,708.4

FORM B:
LOCATION SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

FMC: SWFSC

LOCATION	CYOP REF. #	TASK #	FTE	TOTAL ($K)
HONOLULU	SWR 700	9WGN40H1	1.8	121.6
		9WGN40H2	6.0	288.3
	SWR 701	8L1C1AJ1	7.9	283.9
		8L1C1AJ2	4.9	157.4
		8L1C1AJ4	1.0	65.4
	SWR 710	8L1A7A00	2.8	157.1
	SWR 720	8L1C5AC0	2.3	127.2
	SWR 721	8L1A6AK0	2.0	85.8
	SWR 722	8L1C2A00	3.5	198.1
	SWR 723	8L2B5N02	6.4	363.6
		8L2B5N10	1.0	99.0
	SWR 724	8L1A6AL1	1.8	110.5
	SWR 730	8L1C5AH1	5.9	248.8
		TOTALS	47.3	2,306.7

FORM B:
LOCATION SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

FMC: SWFSC

LOCATION	CYOP REF. #	TASK #	FTE	TOTAL ($K)
HONOLULU	SWR 731	8L1A6AE0	3.0	124.0
	SWR 732	8L1A4BRS	5.5	288.8
	SWR 733	8L1A1A01	0.0	400.0
	SWR 734	8L3B1A00	0.0	188.0
	SWR 740	8L1C2AP0	7.3	262.5
		8L1C2AP1	0.5	68.0
	SWR 741	8L1C1AUW	2.0	104.8
	SWR 750	8L1A3VW0	8.0	400.0
		8L1A3VW1	1.9	74.7
	SWR 984	8L1A5VMS	2.0	100.0
	SWR 987	8R1B3V00	1.0	50.0
	SWR 990/991	8L1A5B70	0.3	20.0
		8L1A5B7G	0.5	25.0
		TOTALS	32.0	2,105.8

FORM B:
LOCATION SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

LOCATION	CYOP REF. #	TASK #	FTE	TOTAL ($K)
TIBURON	SWR 800	9WGN40T2	5.5	193.3
		9WGN40T3	1.0	45.5
		9WGN40T4	1.0	90.0
	SWR 811	8L1C2AM0	9.25	402.6
	SWR 812	8L1A3AP0	7.0	287.6
	SWR 813	8L1A3AT0	6.0	301.6
	SWR 821	8L1C3A00	3.5	267.9
MONTEREY	SWR 901	8L1C5BT0	10.1	505.5
		TOTALS	43.35	2,094.0

RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

DATE		2/24/91
FMC	REF. NO.	PAGE
SWR	050	1 OF 5

STRAGEGIC PLAN
GOAL #: MGT OBJ #:

TITLE ->	Center Support				
TASK NAMES ->	DIRECTOR	LJ ADM SUP	LJ BLD/GRN		
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	9WGN40C0	9WGN40L0	9WGN40M0		
DIRECT LABOR	302.9	132.1	52.2		487.2
PERS. BENEFITS	59.6	22.8	9.6		92.0
TRAVEL	32.0	7.0			39.0
TRANSPORTATION	0	13.5			13.5
RENT,COMM.,UTIL.	44.2	33.5	61.8		139.5
PRINT/REPROD.	4.0	1.0			5.0
CONTRACTS	0	33.1	68.2		101.3
SUPPLIES/MATERIAL	3.8	20.0	22.0		45.8
EQUIPMENT	0	3.0	1.0		4.0
GRANTS					
TOTALS	446.5	266.0	214.8		927.3
FTE (FTP)	6.0	5.5	1.0		12.5
FTE (OTFTP)		.7	1.0		1.7

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

DATE		2/24/91
FMC	REF. NO.	PAGE
SWFSC	050	2 OF 5

STRAGEGIC PLAN
GOAL #: OBJ #:

TITLE ->	CENTER MANAGEMENT & LA JOLLA SCI. SUPPORT				
TASK NAMES ->	IATTC	JR. FELLOW			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1A1ATT	8L1A1AYF			
DIRECT LABOR	0	40.0			40.0
PERS. BENEFITS	0	6.6			6.6
TRAVEL	0	0			0
TRANSPORTATION	0	0			0
RENT,COMM.,UTIL.	54.0	0			54.0
PRINT/REPROD.	0	0			0
CONTRACTS	0	15.8			15.8
SUPPLIES/MATERIAL	0	0			0
EQUIPMENT	0	0			0
GRANTS	0	0			0
TOTALS	54.0	62.4			116.4
FTE (FTP) Exempt	0	2.0			2.0
FTE (OTFTP)	0	0			0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

DATE		2/24/91
FMC	REF. NO.	PAGE
SWFSC	050	3 OF 5

STRAGEGIC PLAN
GOAL #: OBJ #:

TITLE ->	CENTER MANAGEMENT & LA JOLLA SCI. SUPPORT				
TASK NAMES ->					
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1C1AYF				
DIRECT LABOR	0				0
PERS. BENEFITS	0				0
TRAVEL	0				0
TRANSPORTATION	0				0
RENT,COMM.,UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	91.0				91.0
SUPPLIES/MATERIAL	0				0
EQUIPMENT	0				0
GRANTS	100.0				100.0
TOTALS	191.0				191.0
FTE (FTP)	0				0
FTE (OTFTP)	0				0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWR	050	4 of 5

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Center Support	La Jolla, CA	14.2	927.3	Barrett	General Support

A. PROBLEM STATEMENT/OBJECTIVE: Center management and La Jolla support

B. METHODOLOGY/APPROACH:

C. PRODUCT/SERVICES: Management and Administration support related to Region/Center programs

D. CLIENTS: Region/Center/NMFS programs and goals

E. CONTRACTS: No research contracts

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	050	5 of 5

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. BARRETT, IZADORE	DIRECTOR	ES IV	100	9WGN40C0
2. NEAL, RICHARD	DEPUTY DIRECTOR	GM-15	100	"
3. REMINGTON, BENJAMIN F.	EXECUTIVE OFFICER	GM-13	100	"
4. HOSTLER, VIRGINIA	EQUAL EMPLOY. MANAGER	GS-11	100	"
5. WEST, ALICE	SECRETARY	GS-7	100	"
6. LAROCHE, NANCY	COMPUTER ASSISTANT	GS-7	100	"
7. ENGSTRAND, BARBARA R.	PROG. SUPPORT SPECIAL.	GS-11	100	9WGN40L0
8. WATKINS, BARBARA A.	PROCUREMENT AGENT	GS-7	100	"
9. PEREZ, ESTHER	CLERK	GS-4	50	"
10. WHYTE, RONALD H.	CASH & ATTEND. CLERK	GS-4	100	"
11. HIGA, MARTHA	SECRETARY	GS-5	100	"
12. HOLDER, P. GAYE	TRAVEL CLERK	GS-5	100	"
13. MARROW, MERLE	ENGINEERING TECHNICIAN	GS-10	100	9WGN40M0
14. KROM, STANLEY	MAINTENANCE MECHANIC	WG-7	100	"
15. DAGENAIS, NICOLE (T,P/T)	DATA TRANSCR	GS-4	70	9WGN40L0

RESOURCE SUMMARY

NMFS
CURRENT YEAR OPERATING PLAN
FY 1991

DATE		February 6, 1991
FMC	REF. NO.	PAGE
SWC	051	1 OF 3

STRAGEGIC PLAN
GOAL #: ALL OBJ #:

TITLE ->	Scientific Services				
TASK NAMES ->	Illustra.	Editorial	Library		
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1A1AY0	8L1A1ALT	8L1A1ALL		
DIRECT LABOR	104.6	78.4	46.4		229.4
PERS. BENEFITS	17.3	12.9	7.6		37.8
TRAVEL	0.9	0.3	1.0		2.2
TRANSPORTATION					
RENT,COMM.,UTIL.			5.4		5.4
PRINT/REPROD.			2.0		2.0
CONTRACTS	2.0		1.1		3.1
SUPPLIES/MATERIAL	5.0	0.7	30.9		36.6
EQUIPMENT	3.0		0.7		3.7
GRANTS					
TOTALS	132.8	92.3	95.1		320.2
FTE (FTP)	3.0	2.0	2.0		7.0
FTE (OTFTP)	.0	0.75	.0		0.75

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWC	051	2 of 3

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Scientific Services	La Jolla, CA	7.0	320.2	Neal	Res. Info.

A. PROBLEM STATEMENT/OBJECTIVE: Scientific Services include library, editorial and illustrative services designed to meet the unique requirements of a large research facility. Activities are closely integrated with the research of the SWFSC.

B. METHODOLOGY/APPROACH: To provide professional level expertise to SWFSC scientists in the design, literature search and publication of research. A library specializing in marine fisheries is maintained on site. Scientific editorial and typing services are provided to the Center research staff. Capabilities are provided to the Center and the Region in drafting, design, photography and desk-top publishing.

C. PRODUCT/SERVICES: Library, illustrative and editorial.

D. CLIENTS: Research staff of SWFSC and SWR office staff.

E. CONTRACTS: None

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWC	051	3 of 3

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Smith, Susan	Writer	GS 12/2	100	8L1A1ALT
2. Prescott, Lorraine	Editorial Assistant	GS 7/10	100	8L1A1ALT
3. Losey, Debra	Librarian	GS 9/5	100	8L1A1ALL
4. Stephan, Betty	Library Technician	GS 5/5	100	8L1A1ALL
5. Raymond, Kenneth	Scientific Illustrator	GS 12/9	100	8L1A1AY0
6. Allen, Roy	Scientific Illustrator	GS 9/7	100	8L1A1AY0
7. Orr, Henry	Scientific Illustrator	GS 9/7	100	8L1A1AY0
8. Rucci, Nancy (Temp.)	Writer/Editor	GS 7/1	75	8L1A1ALT

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	October 199	
FMC	REF. NO.	PAGE
SWR	052	1 OF 4

RESOURCE SUMMARY

TITLE -> Information Technology Services

TASK NAMES ->	La Jolla	Terminl Is			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C1AG0	8L1C1AUP			
DIRECT LABOR	182.7	41.7			224.4
PERS. BENEFITS	30.2	6.9			37.1
TRAVEL	5.5	1.0			6.5
TRANSPORTATION	.2				.2
RENT, COMM., UTIL.					
PRINT/REPROD.					
CONTRACTS	32.4				32.4
SUPPLIES/MATERIAL	12.5				12.5
EQUIPMENT	20.0				20.0
GRANTS					
TOTALS	283.5	49.6			333.1
FTE (FTP)	5.0	1.0			6.0
FTE (OTFTP)					

STRATEGIC PLAN

GOAL #: ALL OBJ #:

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Information Technology Srvc	La Jolla, CA	6	333.1	Roll	Info.Anal./Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Information Technology Services (ITS) provides the professional computer technology support services for the Center's management, research, and administrative staff to efficiently and effectively meet NMFS mission in the management of the living marine resources. The services cover a broad spectrum of computer technology to support the multi-disciplined environment in the Center. An extension of ITS is a computer specialist in Terminal Island, CA providing information technology services to the Southwest Region Office staff.

B. METHODOLOGY/APPROACH: To fulfill the charter of ITS, the ITS staff stays abreast of the rapid paced changes in technology trends in the computer hardware, software, and telecommunication fields by 1) reviewing the weekly and monthly computer related magazines/newsweeks, 2) evaluating off-the-shelf equipment and software to assess how they might contribute to the Center's productivity, and 3) attending advanced technical training workshops, seminars, and trade shows.

C. PRODUCT/SERVICES: ITS serves 1) as the technical advisor to the SWC Science and Research Director's Office in the development of the long/short range information technology plans and the strategy for the transition from the obsolete to the next-generation computer resources and 2) as the service unit for the Southwest Region's and Science Center's staff by designing/implementing information management systms, providing hardware/software and telecommunication consulting services, and conducting/providing computer-related training programs.

D. CLIENTS: The primary clients for these services are the management, scientific, technical, and administrative personnel at the La Jolla Laboratory. The ITS staff provides information and and assistance to the staff at the Southwest Region Office and the remote laboratories of the Southwest Fisheries Science Center and provides the liaison with NMFS HQ, other Fisheries Regions/ Centers, National Ocean Service, and other federal and state agencies.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Roll, Dorothy D.	Supv. Computer Systems Analyst	GM 334-13	100	8L1C1AG0
Ralston, Frank M.	Computer Systems Analyst	GS 334-12-2	100	8L1C1AG0
Jacobson, Susan	Computer Programmer Analyst	GS 334-11-6	100	8L1C1AG0
Bistodeau, Robert S.	Computer Programmer Analyst	GS 334-11-4	100	8L1C1AG0
Bones, Matthew D.	Electronics Technician	GS 856-10-4	100	8L1C1AG0
Hornof, Gerald F.	Computer Specialist	GS 334-12-6	100	8L1C1AUP

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1C1AG0			Administrative Information Management System								
	E	1	Submit initial system design structure	X							
	A	2	Revise design based on users input	X							
	A	3	Develop software/hardware configuration		X						
	E	4	Submit configuration report to Director		X						
	E	5	Review by users - Configuration Report acceptance			X					
	A	6	Develop software implementation plan			X					
	A	7	Begin software development of highest priority module				X				
			32X Migration to 3COM LAN								
	A	8	Parallel testing of FRS CPM & LAN DOS versions	X	X						
	E	9	FRS LAN DOS version fully implemented		X						
	E	10	Migration of all 32X software to LAN completed			X					
			LAN Expansion								
	E	11	Installation of TCP/IP & ethernet bridge to UCSD LAN	X							
	A	12	Test/implement 3COM LAN interface with FTS2000 WAN		X						
	E	13	Replace 3+share with LAN Manager - open system configuration				X				
			20/20 Training Program								
	E	14	Completion of training				X				

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	060	1 of 4

RESOURCE SUMMARY

TITLE ->	Senior Scientist				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5VP1				
DIRECT LABOR	103.5				103.5
PERS. BENEFITS	17.1				17.1
TRAVEL	4.1				4.1
TRANSPORTATION	0.6				0.6
RENT, COMM., UTIL.	0				0
PRINT/REPROD.	1.0				1.0
CONTRACTS	0				0
SUPPLIES/MATERIAL	7.0				7.0
EQUIPMENT	1.0				1.0
GRANTS	0				0
TOTALS ->	134.3				134.3
FTE (FTP)	2.0				2.0
FTE (OTFTP)	0.5				0.5
APPROVAL SIGNATURE					HQ CONTACT

STRATEGIC PLAN

GOAL #: 4 OBJ #: 2

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

510, 520, 530

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Senior Scientist	SWC-La Jolla	2.5	135.3	W. F. Perrin	Resource Info.

A. PROBLEM STATEMENT/OBJECTIVE: Support the conservation and management at domestic and international levels of marine mammals and endangered species and their critical habitats while evaluating commercial and recreational utilization as permitted by law (Ecosystem objective No. 4 of West Coast and Pacific Insular Ecosystem Group).

B. METHODOLOGY/APPROACH:

1. Provide a scientific basis for delineation of stocks of dolphins to be managed in conjuction with the tuna fishery in the ETP and fisheries in the ENP.
2. Provide expertise, advice and information on population biology for international conservation and management of cetaceans.

C. PRODUCT/SERVICES:

1. Technical contributions to the literature on population biology of cetaceans in the ETP and elsewhere.
2. Advice and planning documents.
3. Organization and operation of national and international workshops, symposia and advisory bodies.

D. CLIENTS:

1. SWC/SWR
2. IWC
3. IUCN
4. US MMC
5. CMS

E: CONTRACTS: None

SWR	060	3 OF 4

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Perrin, William F.	Sup. Fishery Biologist	GM/15	100	8L1A5VP1
Kashiwada, Jerry V.	Biological Technician	GS/7/1	100	8L1A5VP1
Rosel, Patricia	Fishery Technician	GS/7/1	50	8L1A5VP1

SWR	060	4 OF 4

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1A5VP1	M		Convene conference on gillnets and cetaceans	X							
8L1A5VP1	A		Edit proceedings of gillnet conference	X				X			
8L1A5VP1	E		Publish proceeding of gillnet conference						X		
8L1A5VP1	A		Revise 7 chapters for handbook of MM		X		X				
8L1A5VP1	E		Submit revised chapters					X			
8L1A5VP1	A		Analyze data on California Delphinus populations	X	X						
8L1A5VP1	M		Complete paper on California Delphinus populations			X					
8L1A5VP1	E		Complete paper on ETP spinner var.		X						
8L1A5VP1	E		Participate in IWC S.C. meeting			X					
8L1A5VP1	A		Edit proceedings of systematics symposium	X			X				
8L1A5VP1	E		Publish proceedings of systematics symposium						X		

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	01-31-91	
FMC	REF. NO.	PAGE
SWR	301	1 OF 4

RESOURCE SUMMARY

TITLE -> Coastal E. Pac. Pop. Biol. Fishes

TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A3AA0				
DIRECT LABOR	239.8				239.8
PERS. BENEFITS	39.6				39.6
TRAVEL	3.4				3.4
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	12.0				12.0
PRINT/REPROD.	2.0				2.0
CONTRACTS	12.0				12.0
SUPPLIES/MATERIAL	21.1				21.1
EQUIPMENT	17.8				17.8
GRANTS	12.0				12.0
TOTALS	359.7				359.7
FTE (FTP)	7.0				7.0
FTE (OTFTP)	0.0				0.0

STRATEGIC PLAN
GOAL #: 2 OBJ #: 2

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES
304 330
318
319
320

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Pop. Biol. Fish. Coast	La Jolla	7.0	359.7	J.R. Hunter	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task provides biological data needed for fishery independent biomass assessment of coastal pelagic and groundfishes and data needed for understanding the dynamics of these populations such as estimating the effect of environment and population size and structure on growth, reproduction, mortality, and recruitment. Data are also provided on potential interactions among major fish stocks.

B. METHODOLOGY/APPROACH: Our approach is to emphasize the development of new methodologies and evaluations of methods and assumptions underlying standard techniques while providing data needed for management of the stocks. Methodologies include: (1) Laboratory studies designed to develop accurate tools and procedures for sea assessment of biological rates such as spawning, growth, starvation mortality, predation mortality, and use and allocation of energy, (2) Conduction of annual cruises designed to estimate these rates, and (3) Analysis of these data and, in cooperation with other Coastal Division staff, the development of models that provide estimates of biomass and population dynamics based on the data collected at sea.

C. PRODUCT/SERVICES: We produce two classes of products: (1) Parameter estimates and models used by the Commercial and Recreational Fisheries Research Management program of the Center for biomass estimates and for incorporation in management plans for west coast groundfish and wetfish stocks and (2) Development of new methodologies and concepts used by fishery scientists in other NMFS Centers, state agencies, and fisheries groups world-wide and made available through scientific publication and presentation. For example, this task has played a leading international role in recruitment research and ichthyoplankton biomass assessment.

D. CLIENTS: Models and population assessments produced by the task will be used by various fishery management teams including Fishery Management Plan Teams, the Pacific Fishery Management Council, California Department of Fish and Game, and other state management groups.

E. CONTRACTS: Production of histological slides of fish ovaries collected on NMFS surveys ($7K). Private microtechnique vendors are used.

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	301	3 OF 4

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP		% TIME	TASK #
FTE					
1. John R. Hunter	Fishery Biologist (Res.) Adm.	GM	15/00	100%	8L1A3AA0
2. Russell D. Vetter	Fishery Biologist (Res.)	GS	12/05	100%	8L1A3AA0
3. Carol A. Kimbrell	Fishery Biologist (Res.)	GS	09/07	100%	8L1A3AA0
4. Eric A. Lynn	Fishery Biologist (Res.)	GS	09/07	100%	8L1A3AA0
5. Beverly J. Macewicz	Fishery Biologist (Res.)	GS	09/06	100%	8L1A3AA0
6. Diane E. Foster	Secretary	GS	06/03	100%	8L1A3AA0
7. Larry L. Robertson	Fishery Biologist (Res.)	GS	06/04	100%	8L1A3AA0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A3AAO	A	1	Complete respiration measurements of Dover sole	O	M						
"	A	2	Complete oxygen affinity curves for blood of Dover sole to test for adaptations to the oxygen minimum zone (OMZ)	O	M						
"	E	3	Write manuscript on adaptations of Dover sole to OMZ	O	-	A					
"	A	4	Begin measurements of changes in enzyme activity and metabolism with age, temperature, and pressure to determine adaptations to zone of maximum abundance (OMZ)			A	-	-	-	O	
"	A	5	Evaluate histological detection of lipofuscin granule accumulation as potential independent indicator of age in shortspine thornyhead		J	-	-	O			
"	A	6	Carry out collection trips to obtain Dover sole specimens for physiological analysis, molecular genetic analysis and to increase spawning stocks	O	-	-	-	-	-	-	-
"	A	7	Develop techniques for genetic analysis of individual eggs and larvae		J	-	-	-	-	-	-
"	A	8	Determine degree of genetic homogeneity along north-south distributions of Dover sole and other groundfish species		J	-	-	-	-	-	-
"	A	9	Optimize closed aquarium systems for maintenance of brood stocks of Dover sole	O	-	-	S				
"	A	10	Conduct experiments designed to promote growth and sexual maturation of Dover sole. Begin to vary temperature and light as possible spawning cues		J	-	-	-	-	-	-
"	E	11	Prepare manuscript on reproduction of Dover sole from California and Oregon	O	-	-	S				

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	304	1 OF 4

RESOURCE SUMMARY					
TITLE ->	Fisheries Environmental Invest.				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A4BE0				
DIRECT LABOR	227.5				227.5
PERS. BENEFITS	37.5				37.5
TRAVEL	3.6				3.6
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	2.0				2.0
PRINT/REPROD.	2.4				2.4
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	6.1				6.1
EQUIPMENT	5.0				5.0
GRANTS	0.0				0.0
TOTALS	284.1				284.1
FTE (FTP)	5.0				5.0
FTE (OTFTP)	0.0				0.0

STRATEGIC PLAN

GOAL #: 3 OBJ #: 1,2

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

301 330
318
319
320

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWR	304	2 OF 4

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fisheries & Envir. Invest.	La Jolla	5.0	284.1	R.M. Laurs	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This is a comprehensive, multidisciplinary task to investigate and model linkages between recruitment processes in selected California Current fish species and key oceanographic processes. The goal of the research is to provide a more effective scientific basis for the management of commercial and recreational fish stocks through an improved understanding of the effects of variation in the physical environment upon year class strength.

B. METHODOLOGY/APPROACH: The ecosystem approach is followed in these studies to understand fish-ocean relationships needed for the effective management of selected California Current fish stocks. The research program is based on the analysis of filed measurements, historical analysis and modeling. Physical process studies address the transport of early life stages by variable currents. Biological process studies will address the role of ocean circulation on stock structure and growth, and community dynamics. Modeling activities explore and synthesize the mechanistic relations between variability in physical oceanographic processes and early life stages of fishes. Research is focused on selected West coast groundfishes. In addition to utilizing traditional biological and physical oceanographic approaches, extensive use is made of recent technological developments for monitoring the ocean environment. The task plays a leading role in expanding the application of satellite remote-sensing to the understanding of fish recruitment.

C. PRODUCT/SERVICES: Scientific articles published in marine science literature; written and oral reports to the Pacific Fishery Management Council on the occurrence of unusual environmental events along the West coast and the implications to fishery resources.

D. CLIENTS: Knowledge gained by this research will influence judgements in Pacific Fishery Management Councils and Statistical Committee in negotiations with other nations involved in West coast fisheries.

E. CONTRACTS: None

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP		% TIME	TASK #
FTE					
1. R. Michael Laurs	Supervisory Oceanographer (Res.)	GM	14/00	100%	8L1A4BEO
2. Ronald J. Lynn	Oceanographer	GM	13/00	100%	8L1A4BEO
3. Robert Nishimoto	Fishery Biologist (Res.)	GS	11/07	100%	8L1A4BEO
4. Kenneth A. Bliss	Oceanographer	GS	11/08	100%	8L1A4BEO
5. Ronald C. Dotson	Fishery Biologist (Res.)	GS	11/04	100%	8L1A4BEO

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	FY 91 2	FY 91 3	FY 91 4	92 1	92 2	93 1	93 2
8L1A4BEO	A	1	Plan and conduct FORAGE activities at levels commensurate with available funding	O	-	-	-	-	-	-	-
"	E	2	Prepare inventory of existing data sources useful for groundfish oceanography	O	-	-	S				
"	E	3	Complete written review of existing oceanographic knowledge of coastal region, including transport, currents and variability	O	-	-	S				
"	A	4	Conduct physical oceanographic studies of the habitat of groundfish	O	-	-	-	-	-	-	-
"	A	5	Plan and conduct West Coast CoastWatch activities at levels commensurate with available funding	D	-	-	-	D			
"	E	6	Install and test new software for satellite image processing; provide training for the system	O	-	-	-	D			
"	A	7	Conduct research on satellite applications to fisheries	O	-	-	-	-	-	-	-
"	A	8	Investigate North Pacific albacore migration patterns and age using tagging and fishery data	D	-	-	-	D	-	-	-
"	E	9	Prepare two manuscripts on albacore oceanography	O	-	-	-	N			

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	318	1 OF 6

RESOURCE SUMMARY

TITLE -> Ecology & Systematics of Fishes

TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A3AG0				
DIRECT LABOR	183.8				183.8
PERS. BENEFITS	30.4				30.4
TRAVEL	3.0				3.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	2.0				2.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	6.5				6.5
EQUIPMENT	5.8				5.8
GRANTS	0.0				0.0
TOTALS	231.5				231.5
FTE (FTP)	5.0				5.0
FTE (OTFTP)	0.0				0.0

STRATEGIC PLAN

GOAL #: 3 OBJ #: 1

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

301 330
304
319
320

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

SWR	318	2 OF 6

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Ecol. & System. of Fishes	La Jolla	5.0	231.5	H.G. Moser	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The primary goal is to produce data and analyses that lead to a comprehensive understanding of the fish stocks of the California Current region in relation to their environment. Plankton surveys provide information on distribution abundance, reproduction, spawning stock biomass, mortality, and recruitment of fish stocks along with associated oceanographic factors. A major goal is to determine how fluctuations in abundance and distribution of fish stocks are related to oceanographic flux and predator-prey interactions over short-term (seasonal/interannual) and long-term (decadal/climate) time scales.

B. METHODOLOGY/APPROACH: Samples of fish eggs and larvae from historical and current plankton survey and trawl cruises are utilized to produce data for this task. Approximately 300 taxa of fishes are represented in these samples. Processing involves the identification, enumeration, measurement, staging, and computer entry. Resultant data is subjected to time series and community analyses leading to the formulation of ecosystem models. New methodologies are developed to measure biomass of fish stocks using ichthyoplankton techniques. An example is the egg production biomass estimation method developed for coastal pelagic species and selected groundfishes (e.g. Dover sole, sablefish).

C. PRODUCT/SERVICES: (1) Data reports on the distribution and abundance of ichthyoplankton from California and Baja California from 1939 to the present, (2) Time series summaries showing seasonal and interannual changes in abundance and distribution of major species, (3) Ecological analyses that elucidate species interaction and environmental effects on abundance, (4) Scientific publications that present new methodologies for biomass estimation and results of research cruises that employ these methods, (5) Scientific publications on the early life history of fishes that range from papers on individual species and identification guides to comprehensive treatises, and (6) Training courses on ichthyoplankton and techniques.

D. CLIENTS: Scientists in world-wide public and private institutions use our data, reports, and formal publications in their research on commercial, recreational, and ecologically important fish stocks and in formulating ecosystem models. Managers and councils use our information for establishing optimal harvest quotas and conserving territorial fish stocks. The fishing industry uses our information for determining areas of abundance of target species. Private consulting firms and conservation agencies use information for producing their reports. The task has a long-standing commitment to training professional biologists and the public.

E. CONTRACTS: None

SWR	318	3 OF 6

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP		% TIME	TASK #
FTE					
1. H. Geoffrey Moser	Supervisory Fishery Biologist (Res.)	GM	14/00	100%	8L1A3AG0
2. Dave Ambrose	Fishery Biologist (Res.)	GS	11/04	100%	8L1A3AG0
3. William Watson	Fishery Biologist (Res.)	GS	11/02	100%	8L1A3AG0
4. Elaine Acuna	Biological Lab Technician	GS	09/08	100%	8L1A3AG0
5. Sharon Charter	Fishery Biologist (Res.)	GS	09/01	100%	8L1A3AG0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1A3AGO	A	1	Process and analyze ichthyoplankton data from 1987-1990 groundfish surveys (with 319)	O	-	-	-	-	-	-	-
"	A	2	Complete data report on all plankton work accomplished on groundfish cruises from 1987 to 1990 (with 319)	O	-	-	S				
"	A	3	Prepare MS on early life history strategies of groundfish target species using all available data (with 319, 320)	O	-	-	S				
"	E	4	Prepare administrative report assessing the potential application of the egg production biomass estimation method to sablefish (with 301, 320)	O	-	J					
"	A	5	Plan and conduct Dover sole egg and larva vertical distribution cruise (with 319, 310)	O	-	J					
"	A	6	Identify, stage, and measure planktonic stages of Dover sole, sablefish, thornyheads, and other target species from 1991 vertical distribution cruise	O	-	-	-	-	-	-	-
"	A	7	Analyze data from 1991 Dover sole vertical distribution cruise and prepare MS on Dover sole and other target species (with team)	O	-	-	-	-	-	-	-
"	E	8	Co-author brief paper and longer MS on Dover sole fecundity Reduction Biomass Estimation Method with N.C.H. Lo and others	O	-	-	S				
"	A	9	Analyze length frequencies of four CalCOFI flatfish species and prepare data report	O	-	-	-	-	-	-	-
"	A	10	Prepare MS with Paul Smith on abundance and diversity patterns of CalCOFI ichthyoplankton from 1954 to 1960 and begin analysis on entire time series	O	-	-	-	-	-	-	-

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1A3AG0	A	11	Organize and co-chair with Paul Smith a symposium on larval fish assemblages and oceanic boundaries for AFS ELH Annual Meeting. Work with meeting coordinator Lavenberg as co-host	O	-	-	S				
"	A	12	Prepare MS with Paul Smith for AFS ELH Symposium and present paper at meeting in Los Angeles	O	-	-	S				
"	A	13	Co-edit with Paul Smith the collected papers resulting from the AFS-ELH Symposium for publication in LACM Science Bulletin	O	-	-	-	-	-	-	-
"	A	14	Prepare atlas for CalCOFI Ichthyoplankton Identification Guide that summarizes areal, seasonal, and interannual distribution of all species	O	-	-	S				
"	A	15	Administrate second year of illustration contract for CalCOFI Ichthyoplankton Identification Guide and produce 40 early life history series	O	-	-	S				
"	A	16	Identification and analysis of CalCOFI (Manta) ichthyoplankton. Prepare report on sampling systems, eggs, and sized larvae for 1978 (with 319)	O	-	-	-	-	-	-	-
"	A	17	Stage eggs from CalCOFI cruises in 1991 for annual anchovy biomass estimate	O	-	-	S				
"	A	18	Begin identification of ichthyoplankton from 1985 CalCOFI survey	O	-	-	-	-	-	-	-
"	A	19	Identify ichthyoplankton from MOPS cruises in the ETP and prepare summary of 1987 cruise results	O	-	-	-	-	-	-	-
"	A	20	Identify and analyze ichthyoplankton from several vertical distribution cruises (MESSHAI, FRONTS, etc.) and prepare MSs on results	O	-	-	-	-	-	-	-

MILESTONE ARRAY

				FY 91				92		93	
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	1	2	3	4	1	2	1	2
8L1A3AGO	A	21	Prepare descriptions of early life histories of croakers and sanddabs from CalCOFI region	O	-	-	-	-	-	-	-
"	A	22	Analysis of functional morphology of teleost larvae, teleost reproduction, and early life history strategies	O	-	-	-	-	-	-	-
"	A	23	Curate collections of CalCOFI fish eggs, larvae, and juveniles	O	-	-	-	-	-	-	-
"	A	24	Provide consultation, advice, and instruction on ichthyoplankton research and reproductive biology of fishes	O	-	-	-	-	-	-	-
"	A	25	Review and edit manuscripts and research proposals	O	-	-	-	-	-	-	-

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	319	1 OF 5

RESOURCE SUMMARY

TITLE -> Coastal & Pac. Fish. Res. Invest.

TASK NAMES ->					\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A6AH0				
DIRECT LABOR	267.3				267.3
PERS. BENEFITS	31.4				31.4
TRAVEL	4.3				4.3
TRANSPORTATION	3.0				3.0
RENT,COMM.,UTIL.	7.5				7.5
PRINT/REPROD.	2.0				2.0
CONTRACTS	55.3				55.3
SUPPLIES/MATERIAL	19.6				19.6
EQUIPMENT	12.2				12.2
GRANTS	0.0				0.0
TOTALS	402.6				402.6
FTE (FTP)	5.0				5.0
FTE (OTFTP)	2.6				2.6

STRATEGIC PLAN

GOAL #: 2 OBJ #: 2

VESSELS # SEA DAYS ALLOC.	
81	
NOAA	CHARTER
74	7
# FREE DAYS	
32 SIO	

CROSS REFERENCES

301 330
304
318
320

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Coastal & Pac. Fish. Invest	La Jolla	7.6	402.6	R.L. Charter	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task provides the basic information required for the annual assessment of stocks supporting California coastal fisheries. This task provides the logistics in FY91 for four California Cooperative Oceanic Fisheries Investigations (CalCOFI), and one groundfish cruise.

B. METHODOLOGY/APPROACH: We will complete five ichthyoplankton survey cruises collecting over 1250 plankton samples. All of the data from these cruises and samples will be processed by the personnel of this task and cooperating people from the University of California's Scripps Institution of Oceanography. These data will be added to the CalCOFI historical time series. We will also be updating and improving the CalCOFI historical data bases (1951-1989). The Aerial Marine Monitoring System (AMRMS) data bases will also be updated as we get new data.

C. PRODUCT/SERVICES: The major products of this task are the CalCOFI data bases, the AMRMS data base, and the newly acquired groundfish information. Major services include logistics for all Coastal Division cruises, data base management, and assistance in data analysis.

D. CLIENTS: The main clients will be the Pacific Fishery Management Council, Scripps Institution of Oceanography and other NMFS fishery centers.

E. CONTRACTS: Aerial Spotter Contracts ($17.1K) is let for data collection for the Aerial Marine Resource Monitoring System. Charter vessels ($34.2K) for R.O.V. work.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE				
1. Richard L. Charter	Sup. Computer Programmer Analyst	GS 13/0	100	8L1A6AH0
2. Cindy Meyer	Computer Programmer	GS 11/3	100	8L1A6AH0
3. Dave Griffith	Fishery Biologist (Res.)	GS 09/2	100	8L1A6AH0
4. Dimitry Abramenkoff	Fishery Biologist (Res.)	GS 09/5	100	8L1A6AH0
5. Susan Manion	Fishery Biologist	GS 07/1	100	8L1A6AH0
FTT				
6. Lucy Dunn	Biological Technician	GS 05/1	50	8L1A6AH0
7. Francis Pocinich	Biological Technician	GS 05/1	50	8L1A6AH0
8. Jeanne Haddox	Biological Technician	GS 05/1	50	8L1A6AH0
9. Amy Hays	Biological Aid	GS 04/1	60	8L1A6AH0
10. Mary Alice Lumpkins	Biological Technician	GS 05/1	50	8L1A6AH0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1A6AH0	E	1	Prepare clearance request for scientific collecting in foreign seas, e.g., Mexico, if needed			J			A		A
8L1A6AH0	A	2	Maintain close liaison with captain and crew of ships of cooperative agencies	-	-	-	-	-	-	-	-
8L1A6AH0	A	3	Maintain AMRMS (aerial survey) data base	-	-	-	-	-	-	-	-
8L1A6AH0	A	4	Assist in design and development of data management system for the groundfish data	D				O	A	O	A
8L1A6AH0	A	5	Sort plankton samples for groundfish & CalCOFI cruises for major species	-	-	-	-	-	-	-	-
8L1A6AH0	A	6	Enter and edit all data and sorting results pertinent to the biomass estimates	-	-	-	-	-	-	-	-
8L1A6AH0	A	7	Edit all data collected at sea; correct all errors, enter into CalCOFI and groundfish data bases	-	-	-	-	-	-	-	-
8L1A6AH0	A	8	Design cruise patterns, establish activities, prepare cruise announcements and reports	-	-	-	-	-	-	-	-
8L1A6AH0	A	9	Ready all seagoing equipment for cruises; design and construct experimental gear	-	-	-	-	-	-	-	-
8L1A6AH0	A	10	Maintain close liaison with captain and crew of R/V David Starr Jordan and other research vessels	-	-	-	-	-	-	-	-
8L1A6AH0	A	11	Update, improve and use shipboard computer system to allow transfer of digitized CalBOBL and Manta tow data, captain's logs and logs to SWFSC on IBM PC compatibles	-	-	-	-	-	-	-	-

SWR	319	5 OF 5

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A6AH0	A	12	Update and improve CalCOFI data bases, computer programs and edits	-	-	-	-	-	-	-	-
8L1A6AH0	A	13	Consult with program leaders and retrieve data from CalCOFI data bases when needed	-	-	-	-	-	-	-	-
8L1A6AH0	A	14	Develop and implement data entry routines for IBM PC compatibles	-	-	-	-	-	-	-	-

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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RESOURCE SUMMARY

TITLE -> Survey Systems Dev. & Evaluation

TASK NAMES ->					\/
OBJECT CLASS	TASK #1 8L1A6AJ0	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	236.7				236.7
PERS. BENEFITS	39.1				39.1
TRAVEL	4.5				4.5
TRANSPORTATION	0.5				0.5
RENT,COMM.,UTIL.	1.5				1.5
PRINT/REPROD.	0.0				0.0
CONTRACTS	1.5				1.5
SUPPLIES/MATERIAL	7.0				7.0
EQUIPMENT	11.5				11.5
GRANTS	0.0				0.0
TOTALS	302.3				302.3
FTE (FTP)	4.0				4.0
FTE (OTFTP)	1.7				1.7

STRATEGIC PLAN

GOAL #: 3 OBJ #: 1

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

301 330
304
318
319

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Survey Systems Dev. & Eval.	La Jolla	5.7	302.3	P.E. Smith	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: There are increasing demands for quantitative information on the status of fish stocks for fishery development, management and allocation of stocks. There is historical information on the spawning activity of commercial stocks of fish and their associates and SWC-320 maintains files of data from 1939 to the present regarding status of the fish, their spawning grounds and physical oceanographic measurements. Our primary objective is to provide quantitative species and environmental data to aid in development and management of the fisheries.

B. METHODOLOGY/APPROACH: With other specialists, we design and carry out field surveys to gather accurate, precise, inclusive, and representative data on fish population size and spawning area using data on abundance, production, survival, and dispersal of fish eggs and larvae. Consideration is given to the past surveys to maintain continuity with historical data so that time-series may be assembled for the evaluation of changes in the population. We also specify new and archive old data on ocean climatology in the California Current Ecosystem.

C. PRODUCT/SERVICES: Our main products and services are scientific papers on the basic biology of and changes in resource populations and the environment and documented sets of data for other scientists or data summaries for fishery managers.

D. CLIENTS: Our major clients are regional fishery managers, NMFS and California Department of Fish and Game, other scientists at the University of California, and global interests in the understanding of resource population changes.

E. CONTRACTS:

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE				
1. Paul E. Smith	Fishery Biologist (Res.)	GM 14/00	100%	8L1A6AJO
2. Laurence E. Eber	Oceanographer	GS 13/10	100%	8L1A6AJO
3. Nancy C.H. Lo	Mathematical Statistician	GS 13/08	100%	8L1A6AJO
4. John L. Butler	Fishery Biologist (Res.)	GS 12/02	100%	8L1A6AJO
OTHER				
5. Andrea Calabrese	Biological Technician	GS 05/01	63%	8L1A6AJO
6. Kathy Dahlin	Biological Technician	GS 05/01	63%	8L1A6AJO
7. John Lim	Computer Clerk	GS 04/01	44%	8L1A6AJO

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	FY 91 2	FY 91 3	FY 91 4	92 1	92 2	93 1	93 2
8L1A6AJO	A	1	Determine key parameters for groundfish biomass estimation and optimal method for assessing them	O	-	J					
"	A	2	Develop sampling plans for pilot studies and calibration of density estimates of Dover sole, thornyhead, grenadier and other continental slope resources using ROV, Manned Submersible and and traditional methods	O	-	J					
"	A	3	Analyze sablefish survey data and evaluate optimum sector biomass estimate	O	-	-	S				
"	A	4	Analyze temperature field from Deep Bongo records for comparison with incidence depths and temperature limits for deep eggs and larvae	N	M						
"	A	5	Plan, conduct and analyze MOCNESS cruise to determine temperature depth history of Dover sole eggs and larvae and determine the offshore extent of spawn	O	-	J					
"	A	6	Calibrate age of thornyhead and other decades-old fishes of the continental slope community for population models and stock synthesis approach	O	-	J					
"	E	7	Complete manuscript on the 7-year time series by month	O	-	-	S				
"	E	8	Undertake analyses of aerial survey data for other pelagic fish populations (possible sardine and mackerel) under management and write manuscript on the aerial survey time series for anchovy	O	M						
"	A	9	Simultaneous population models of the early life history of sardine and anchovy, stochastic variations in parameters and interannual variation	O	-	-	-	M			

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1A6AJO	A	10	Update and modify the estimation procedures for the spawning biomass of pelagic fish	O	-	-	A				
"	E	11	Complete manuscript on the 40-year time series by three-year intervals	O	-	-	-	D			

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STRATEGIC PLAN
GOAL #: 2 OBJ #: 1,2,3

TITLE ->	Comm. & Rec. Fish. Research for Mgmnt.				
TASK NAMES ->	Fish/Mgmt	Socio/Econ			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1C2AS0	8L1C2AS2			
DIRECT LABOR	166.5	66.8			233.3
PERS. BENEFITS	27.5	10.5			38.0
TRAVEL	9.0	1.0			10.0
TRANSPORTATION	0.0	0.0			0.0
RENT,COMM.,UTIL.	2.5	0.0			2.5
PRINT/REPROD.	1.5	0.5			2.0
CONTRACTS	0.0	50.0			50.0
SUPPLIES/MATERIAL	5.0	0.0			5.0
EQUIPMENT	4.0	1.5			5.5
GRANTS	0.0	0.0			0.0
TOTALS	216.0	130.3			346.3
FTE (FTP)	4.0	0.0			4.0
FTE (OTFTP)	0.5	1.3			1.8

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

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APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Comm. & Recr. Fish. Mgmnt.	La Jolla	5.8	346.3	L.D. Jacobson	Inform. Analysis Diss.

A. PROBLEM STATEMENT/OBJECTIVE: Biological and economic information is needed for fishery management. Specific products required include FMP's, amendments to FMP's, other management information documents, fish stock assessments, methodological improvements in stock assessments, economic information on status of commercial fisheries, evaluations of alternative management strategies, and economic evaluations of marine recreational fisheries. Planning and management of the joint SWC/SWR socio-economic fund is also needed.

B. METHODOLOGY/APPROACH: Task biologists utilize historical data bases (CalCOFI, CDF&G sea survey, and special SWFSC survey and port samples) in conjunction with quantitative analytical models to estimate stock sizes, investigate the population dynamics and sustainable yields, and to evaluate alternative biological aspects of management strategies.

Task economists use data on prices, catches, fishing fleet characteristics, fishing costs, and recreational fishing surveys to assess fishing fleet productivity, evaluate alternative management regulations, and assess economic characteristics of marine recreational fishing. Efforts are made to integrate biological and economic analyses.

Program personnel also (1) Plan and participate directly in some seagoing data collection efforts (e.g. surveys of west coast groundfish) and (2) Plan and monitor economics data collection (e.g. fishing vessel cost and earnings data, and recreational fisheries surveys).

C. PRODUCT/SERVICES: Abundance estimates for northern anchovy, *Sebastolobus* sp., and other species such as Pacific mackerel as required. Improved stock assessment techniques. Annual fishery status report for coastal pelagics, and major contributions to reports of Pacific coast groundfish and tuna fisheries. Economic data and analyses of recreational marine fishing; improved techniques for economic valuation and productivity measurement; and regulatory impact assessments for tuna regulations. These products are developed as peer reviewed scientific papers whenever possible.

D. CLIENTS: Information and reports generated in this program are used by (1) the Pacific Fishery Management Council, (2) State/federal cooperative management efforts, (3) U.S. government agents in tuna fisheries currently or prospectively under international management, (4) U.S. representatives in international fisheries investigations (e.g. Mexus-Pacifico), and (5) Other public groups concerned with nearshore ocean management.

E. CONTRACTS: (1) Southern California Sportfish Economic Survey, (2) Economic Model of Sacramento River Salmon Fishery; (3) Survey of Cost-earnings Data for West Coast Groundfish Trawl vessels.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Larry Jacobson	Supv. Fishery Biologist	GM 13/00	100%	8L1C2ASO
2. Samuel Herrick	Industry Economist	GS 12/08	100%	8L1C2ASO
3. Dale Squires	Industry Economist	GS 12/03	100%	8L1C2ASO
4. Cynthia Thomson	Industry Economist	GS 11/05	100%	8L1C2ASO
Other				
6. Judy Ester	Computer Clerk	GS 04/01	50%	8L1C2ASO
7. Jon Conrad	Industry Economist (Summer Faculty)	GS 14/01	25%	8L1C2AS2
8. John Lanfersieck	Student Economist	GS 05/01	50%	8L1C2AS2
9. Thanh Huyen Vu	Computer Clerk	GS 04/01	50%	8L1C2AS2

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1C2ASO	E	1	Present preliminary anchovy biomass estimate to SWR by July 1, 1991	O	-	-	J				
"	M	2	Complete documentation of final anchovy biomass estimate by August 1, 1991	O	-	-	A				
"	A	3	Complete analysis of data requirements (especially EPM) for estimation of anchovy spawning biomass using Stock Synthesis Model	O	-	-	J				
"	A	4	Modify Stock Synthesis Model for anchovy to improve precision of biomass estimates and facilitate parameter estimation	O	-	-	-	-	-	-	-
"	M	5	Develop annual wetfish fishery information and write Administrative Report on the wetfish fishery status by September 1, 1991	O	-	-	S				
"	A	6	Assist California Dept. of Fish & Game with development of approaches to managing sardine fishery	O	-	-	-	-	-	-	-
	A	7	Assist California Dept. of Fish & Game with stock assessments for wetfish, particularly sardine, as required	O	-	-	-	-	-	-	-
"	A	8	Provide information on trends and economic events in tuna fishery to industry members and other elements of NOAA, as required	O	-	-	-	-	-	-	-
"	E	9	Present stock assessment for longspine thornyhead to PFMC in September	O	-	-	S				
"	A	10	Develop information for stock assessment of longspine thornyhead stocks in cooperation with NWAFSC and other SWFSC tasks	O	-	-	-	-	-	-	-
"	A	11	Complete analysis of Quadratic Programming Model (QPM) to assess economic impact of regulation in the Pacific coast groundfish fishery	O	-	J					

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1C2ASO	A	12	Expand and update cost and earning data base for commercial fishing vessels, and use the data base to update the Pacific groundfish fleet productivity index	O	-	-	-	N			
"	A	13	Analyze data from the Southern California Sportfish Economic Survey to determine patterns of behavior and economic value	O	-	-	-	-	M		
"	A	14	Administer SWR socioeconomic fund	O	-	-	-	-	-	-	-
"	A	15	Assist PFMC with analysis of and design of proposed limited entry system for groundfish	O	-	-	-	-	-	-	-

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STRATEGIC PLAN
GOAL #: 2 OBJ #: 1,2

TITLE ->	Tuna & Large Pelagics Stock Invest.				
TASK NAMES ->	Tuna & Lg. Pel. Inv.	Billfish Invest.			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C5AB2	8L1C5AB1			
DIRECT LABOR	138.0	55.4			193.4
PERS. BENEFITS	22.8	9.1			31.9
TRAVEL	5.0	1.2			6.2
TRANSPORTATION	2.0	0			2.0
RENT,COMM.,UTIL.	3.0	1.0			4.0
PRINT/REPROD.	2.0	2.0			4.0
CONTRACTS	56.0	0			56.0
SUPPLIES/MATERIAL	4.9	2.0			6.9
EQUIPMENT	6.0	0			6.0
GRANTS	0	0			0
TOTALS	239.7	70.7			310.4
FTE (FTP)	3.46	1.0			4.46
FTE (OTFTP)	0.5	0			0.5

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES
411
421
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APPROVAL SIGNATURE HQ CONTACT

TITLE - Tuna &	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Large Pelagics Stock Inves.	La Jolla	4.46	310.4	N. Bartoo	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: This task investigates and provides advice and information on stocks of tuna and large pelagics found in both the Oceanic ecosystem and the California Current ecosystem. Investigations and work plans are formulated to meet requirements specified by NMFS resource managers associated with international fisheries agreements (IATTC, ICCAT, IOFC, IPTP, S. Pacific Tuna Treaty) and associated with regional fisheries management councils (Pacific and Western Pacific) and with tuna-billfish negotiations. The data and advice are used in International negotiations and discussions, and discussions regarding access, exploitation, conservation, and protection of the resources as well as for generating advice used in formulating domestic policies for conservation and protection, and for management options.

B. METHODOLOGY/APPROACH: The task produces data and biological information developed from experiments and fishery sampling as well as integrating similar data generated by related tasks. The adequacy and accuracy of data and information are assessed, and appropriate fisheries and ecological models are employed or developed to produce required asessments and advice.

C. PRODUCT/SERVICES: Products are scientific reports and publications providing assessments and ecological information and data on stocks and fisheries as required. Products are distributed in the form of internal reports, newsletters, SWFC Administrative Reports, NOAA Technical Memorandums, and various technical publications

D. CLIENTS: Principal clients include NMFS managers, U.S. Government commissioners to international organizations, SSC of regional councils, and SWFC scientists.

E. CONTRACTS: Pacific Marine Fisheries Commission; $54.0 - port sampling of U.S. albacore data. Various private sources; $1K - keypunching of data.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
N. Bartoo	Supervisory Fishery Biolgist (Research)	GM13	88	8L1C5AB2
D. Au	Fishery Biologist (Research)	GS12/10	100	8L1C5AB2
D. Holts	Fishery Biologist (Research)	GS11/4	66	8L1C5AB2
D. Ramon	Fishery Biologist	GS5	100	8L1C5AB2
J. Squire	Fishery Biologist (Research)	GS13/10	100	8L1C5AB1
C. Brown	Biological Technician	GS5	50	8L1C5AB2

MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C5AB2	1	A	Publish 1990 contributions for tuna and billfish stocks and fisheries reports		X		X				
8L1C5AB2	2	A	Produce 1991 contributions for tuna and billfish compendium								
8L1C5AB2	3	A	Analyze passive gear CPUE	X	X						
8L1C5AB2	4	A	Participate in cooperative albacore assessment studies.	X	X	X	X				
8L1C5AB2	5	E	Coordinate and co-host 125th North Pacific Albacore Workshop				A				
8L1C5AB2	6	A	Prepare shark fishery summaries from logbooks	X	X	X	X				
8L1C5AB2	7	A	Document length frequency analysis of C-W Pacific yellowfin		X						
8L1C5AB2	8	A	Conduct joint Mexico/NMFS striped marlin tracking		X						
8L1C5AB2	9	A	Conduct N&S Pacific albacore maturity/spawn timing study	X	X	X	X	X	X		
8L1C5AB1	10	E	Publish Billfish Angler Survey			J					
8L1C5AB1	11	A	Coordinate Pacific Cooperative Billfish Tagging Project	X	X						

MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C5AB1	12	A	Conduct Pacific Billfish Angler Survey	X	X						

FY 1991

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STRATEGIC PLAN
GOAL #: 2 OBJ #: 2
4 1,2,3

TITLE ->	Multispecies Data Coll. & Evaluation				
TASK NAMES ->	TunaData Mgmt.	MM/FishInt DataMgmt	S.Pac.Tuna Treaty Mon		
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1C1AW1	8L1C1VW2	8L1B2CTT		
DIRECT LABOR	127.8	133.2	30.7		291.7
PERS. BENEFITS	21.1	22.0	5.1		48.2
TRAVEL	5.0	1.0	0.0		6.0
TRANSPORTATION	1.0	0.0	0.2		1.2
RENT,COMM.,UTIL.	11.0	15.0	0.0		26.0
PRINT/REPROD.	5.5	1.0	0.0		6.5
CONTRACTS	8.0	7.5	8.5		24.0
SUPPLIES/MATERIAL	1.0	0.0	0.5		1.5
EQUIPMENT	2.3	0.0	0.0		2.3
GRANTS	0.0	0.0	0.0		0.0
TOTALS	182.7	179.7	45.0		407.4
FTE (FTP)	4.5	4.9	0.6		10.0
FTE (OTFTP)	0.0	0.0	1.0		1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES
401 510
421
431

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY			
	SWR	411	2 OF 5

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MultispeciesDataColl.&Eval.	La Jolla	11.0	407.4	A. Coan	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Inherent in the problem of monitoring ecosystems and forecasting changes in marine resources is the collection of data pertinent to each resource and the creation of comprehensive databases that allow analysis and dissemination of these data. The objective of this task is to address this problem by collecting the required data through various published sources, established data exchange agreements or actual field sampling programs and by creating automated data systems. Collection and processing of data for U.S. purse seiners in the South Pacific is conducted as part of the South Pacific Tuna Treaty. Processing of data for marine mammals is conducted as mandated by the Marine Mammal Protection Act.

B. METHODOLOGY/APPROACH: The task processes tuna-dolphin observer data, tuna fisheries data, and other data collected from field experiments, expeditions, and post sampling. The task uses various sources including publications,international contacts, data exchange agreements, etc. to collect data The task also uses statistical methodologies to develop and maintain field sampling programs for the collection of information on fisheries for large pelagics, and for collection of information on marine mammals. Current computer technologies are used to develop and maintain data systems and to provide software for supporting analyses of oceanic and California current ecosystems, and resource forecasting for large pelagic stocks and marine mammals.

C. PRODUCT/SERVICES: Principal products of the task are software, data systems and data collection programs in support of research. The task provides annual summaries and analyses of data by fisheries for use in stock assessments and fisheries evaluations. The task also provides annual summaries and analyses of data collected by tuna-dolphin observers for use in marine mammal stock evaluations.

D. CLIENTS: The task's products and services are used by the PFRD & FMMID research staff, various foreign and domestic fisheries management organizations, NOAA fishery administrators, industry and constituency groups to monitor and manage stocks of large pelagics, and marine mammals. Data are also used by constituency groups involved in fishery development.

E. CONTRACTS: Key Punch - 16.5K, Various private companies
Microfilming - 7.5K, Various private companies

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
A. Coan	Supervisory Math. Stat.	GM/13	100	8L1C1AW1
C. Perrin	Computer Programmer Anal	GS/11/6	60	8L1C1AW1
			40	8L1C1VW2
G. Rensink	Fishery Biologist Tech.	GS/6/2	100	8L1C1AW1
J. Childers	Fishery Biologist Tech.	GS/6/2	100	8L1C1AW1
A. Jackson	Fishery Biologist Res.	GS/9/5	50	8L1C1AW1
			50	8L1C1VW2
D. Prescott	Computer Programmer	GS/7/2	40	8L1C1AW1
			60	8L1B2CTT
K. Wallace	Computer Programmer Anal	GS/11/7	100	8L1C1VW2
R. Rasmussen	Fishery Biologist Tech.	GS/8/8	100	8L1C1VW2
M. Trianni	Fishery Biologist Tech.	GS/7/3	100	8L1C1VW2
J. Tran	Computer Programmer	GS/7/1	100	8L1C1VW2
Vacant (T)	Fishery Biologist Tech.	GS/6/1	100	8L1B2CTT

MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C1AW1	1	A	Update Atlantic tropical tuna data bases		J		S	J	S	J	S
8L1C1AW1	2	A	Develop and maintain data bases for Pacific Ocean and Indian Ocean tunas and other large pelagics	O			S	O	S	O	S
8L1C1AW1	3	A	Collect data from fisheries for tunas and large pelagics in the Pacific and Indian Oceans	O			S	O	S	O	S
8L1B2CTT	4	A	Process South Pacific Regional Tuna Treaty Data	O			S	O	S	O	S
8L1B2CTT	5	E	Re-evaluate sampling plan for the collection of fisheries data under the South Pacific Regional Tuna Treaty				J		J		J
8L1B2CTT	6	E	Submit treaty data to Forum Fisheries Agency (Oct 15, Dec 15, Feb 15, Apr 15, Jun 15, Aug 15)	O			S				
8L1C1AW1	7	E	Produce quarterly "Tuna Newsletter"	N	F	M	A				
8L1C1AW1	8	M	Produce report summarizing data for the 1990 U.S. North and South Pacific albacore fisheries				J		J		J
8L1C1AW1	9	A	Provide PFRD with software and hardware support	O			S	O	S	O	S
8L1C1VW2	10	A	Provide FMMID with software and hardware support	O			S	O	S	O	S
8L1C1VW2	11	A	Produce comprehensive data base edits in support of porpoise observer data analyses	O			S	O	S	O	S

MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C1VW2	12	A	Develop and maintain data bases for marine mammals	O			S	O	S	O	S
8L1C1VW2	13	E	Participate in and process data from eastern tropical Pacific dolphin research cruises		M		S	M	S	M	S
8L1C1VW2	14	E	Produce summary of 1989 and 1990 NMFS porpoise observer data	D			A				
8L1C1VW2	15	E	Participate in SWR observer forms review				J		J		J
8L1C1VW2	16	E	Develop a NMFS porpoise observer atlas (1976-86)	N			S				
8L1C1VW2	17	E	Publish sundown set analysis	D							
8L1C1VW2	18	E	Produce report on high kill sets				A				

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STRATEGIC PLAN
GOAL #: 2 OBJ #: 2

TITLE ->	Pelagic Fisheries and Stocks Evaluation			
TASK NAME ->					

OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C2A30				
DIRECT LABOR	96.7				96.7
PERS. BENEFITS	16.0				16.0
TRAVEL	13.4				13.4
TRANSPORTATION	0.1				0.1
RENT,COMM.,UTIL.	0.8				0.8
PRINT/REPROD.	1.0				1.0
CONTRACTS	0				0
SUPPLIES/MATERIAL	4.5				4.5
EQUIPMENT	3.5				3.5
GRANTS	0				0
TOTALS ->	136.0				136.0
FTE (FTP)	2.0				2.0
FTE (OTFTP)	0				0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

401
411
431

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Pelagic Fish. & Stocks Eval	La Jolla	2	136.0	G. Sakagawa	

A. PROBLEM STATEMENT/OBJECTIVE: This task monitors tropical tuna trade and fishery developments on a global scale to aid in the interpretation and evaluation of fishery statistics used in analyses of stock condition and fishery evaluation. Additionally, this task assists on-going research on determining the condition of tuna stocks.

B. METHODOLOGY/APPROACH: Data and information for accomplishing this task are obtained from international sources, U.S. industry sources, and from scientists. The emphasis is on obtaining current information on the fisheries and in using quantitative models for determining and forecasting the effects of fishing on the resource.

C. PRODUCT/SERVICES: Results of this task are prepared for publication in scientific journals, internal reports and newsletters, and for oral presentations to NMFS managers, U.S. Commissions, etc. This task also serves as a public source for current data and information on the tuna fisheries and condition of the tuna stocks.

D. CLIENTS: The clients vary, depending on the information. The task results, however, receive wide distribution, both domestically and foreign, to tuna industry personnel, scientists, government officials, fishery managers and agency administrators.

E. CONTRACTS: None.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Gary Sakagawa	Fishery Biologist (Research Administration)	GM15	100	8L1C2A30
Karen Handschuh	Secretary	GS6/7	100	8L1C2A30

MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 91 1	FY 91 2	FY 91 3	FY 91 4	92 1	92 2	93 1	93 2
8L1C2A30	1	A	Provide scientific advice for U.S. tuna negotiations (IOFC, IPTP, IATTC, ICCAT, etc.) as required.	X	X	X	X	X	X	X	X
	2	A	Produce analyses of tuna stock condition for meetings as required.	X	X	X	X	X	X	X	X
	3	A	Participate in scientific meetings on tuna stock assessment of interest to the U.S.	X	X	X	X	X	X	X	X
	4	A	Conduct study on tuna school size.	X	X	X	X	X	X		
	5	A	Monitor status for securing 1981-88 U.S. tuna statistics for the western Pacific fishery.	X	X	X	X	X			
	6	A	Coordinate activities associated with the Tuna Management Information Document and tuna policy development.	X	X	X	X				
	7	A	Coordinate SWFSC tuna research activities.	X	X	X	X	X	X	X	X
	8	E	Publish manuscript on analysis of tuna purse seine flag transfer			X					

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STRATEGIC PLAN
GOAL #: 3 OBJ #: 1,2

TITLE ->	Pelagic Ecosystem Modelling				
TASK NAME ->					
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1C2A20				
DIRECT LABOR	93.7				93.7
PERS. BENEFITS	15.5				15.5
TRAVEL	2.0				2.0
TRANSPORTATION					
RENT,COMM.,UTIL.	0.3				0.3
PRINT/REPROD.	0.3				0.3
CONTRACTS					
SUPPLIES/MATERIAL	1.7				1.7
EQUIPMENT	4.9				4.9
GRANTS					
TOTALS	118.4				118.4
FTE (FTP)	2.0				2.0
FTE (OTFTP)	0.5				0.5

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

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APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Pelagic Ecosystem Modelling	La Jolla	3.0	118.4	Pierre Kleiber	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: This task evaluates current stock assessment models and techniques for accuracy and relevancy of information for management and development of pelagic fisheries and for conservation of pelagic resources. It also assists in designing and conducting stock assessments and in planning and evaluating sampling projects.

B. METHODOLOGY/APPROACH: The principal method is to use simulation models. These can help to pin-point areas where lack of ecological understanding might lead to deficiencies in proper resource management. They can also simulate data used for stock assessments, where the simulations incorporate more realistic conditions than are assumed by the technique under evaluation. The performance of the technique with the simulated data can then be assessed.

C. PRODUCT/SERVICES: The products are scientific publications, internal reports, and oral presentations which are disseminated to selected parties, including NMFS managers, U.S. commissioners and Fishery Management Council members. Services include consultation in particular situations ranging from management questions to research design, and training on modelling, and on use (and avoiding misuse) of stock assessment techniques.

D. CLIENTS: The audience mostly consists of U.S. fishery management professionals involved in execution of the FMCA, MMPA, and tuna treaties as well as a wider audience of resource scientists in various domestic institutions as well as foreign and international institutions and commissions.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Pierre Kleiber	Fishery Biologist (Res.)	GM13	100	8L1C2A20
Carlos Salvadó	Operations Res. Anal.	GS12/1	100	8L1C2A20
Vacant	Computer Assistant	GS5/1	50	8L1C2A20

MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C2A20	1	M	Adapt TOPS model to simulate tuna movement				X				
8L1C2A20	2	A	Coordinate fisheries interaction working group for FAO expert consultation on Pacific tunas.	X	X	X					
8L1C2A20	3	A	Use analytical fish movement model to assess skipjack movement and fishery interaction in E. tropical Atlantic	X	X						
8L1C2A20	4	A	Use analytical fish movement model to assess albacore movement and fishery interaction in N. Pacific.		X	X					
8L1C2A20	5	E	Prepare paper on assessment methods for fishery interaction meeting.	X	M						
8L1C2A20	6	A	Use analytical fish movement model to assess skipjack movement in the central and western Pacific					X	X		
8L1C2A20	7	E	Attend meeting of FAO expert consultation on Pacific tunas.					D			
8L1C2A20	8	E	Prepare proposal for archival tagging of swordfish			N					
8L1C2A20	9	A	Eval. neural-net programming for recognizing signatures of tuna schools & tuna vess. in data coll. by synthetic aperture radar borne by aircraft and sattellite.				X				
8L1C2A20	10	E	Prepare paper on advection/diffusion models of fish movement.		M						

SWR	510	1 OF 4

STRATEGIC PLAN
GOAL #: 4 OBJ #: 3

TITLE ->	Fishery-Marine Mammal Interactions Program			
TASK NAMES ->	Fish. Ind. Assessment	Mar. Mamm. Admin.	Survey Operations		

OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C4VA1	8L1C4VA2	8L1A6VW0		
DIRECT LABOR	47.4	146.9	129.6		323.9
PERS. BENEFITS	7.7	23.9	12.2		43.8
TRAVEL	1.0	3.0	8.0		12.0
TRANSPORTATION	0	0	0		0
RENT,COMM.,UTIL.	0	0	0		0
PRINT/REPROD.	0	4.2	0		4.2
CONTRACTS	0	25.0	0		25.0
SUPPLIES/MATERIAL	3.0	17.1	16.3		36.4
EQUIPMENT	0	4.4	0		4.4
GRANTS	0	0	0		0
TOTALS	59.1	224.5	166.1		449.7
FTE (FTP)	1.0	2.0	0		3.0
FTE (OTFTP)	0	2.8	3.45		6.25

APPROVAL SIGNATURE HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
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# FREE DAYS	

CROSS REFERENCES

520
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fishery-Mar. Mamm. Int. Div	SWC-La Jolla	3.0	449.7	D. DeMaster	Res. Info, Info, Anal. & Diss.

A. PROBLEM STATEMENT/OBJECTIVE: This task is one of eight closely linked tasks involving research on dolphins associated with the Eastern tropical Pacific (ETP) tuna fishery. It provides information on biological impacts of management practices by NMFS as mandated by the Marine Mammal Protection Act (MMPA). Recent Congressional action reauthorizing the MMPA, specified a monitoring program to determine trends in dolphin populations over a long sampling period of 5 years or more. This task is responsible for producing the experimental design to be the monitoring program and a series of annual surveys using NOAA research vessels and an aircraft. It specifies data to be collected and, after they have been collected, analyzes these data to determine the trends in dolphin abundance, and to evaluate possible causes for the trends.

B. METHODOLOGY/APPROACH: The main focus of the task in FY91 is to conduct research ship surveys of ETP dolphins, participate in data collection, complete data analyses and present findings. This will include completing analyses of data collected during 1986, 1987, 1989 and 1990, completing computer programs for data analyses, and establishing procedures for reviewing results before release to the general public. In addition, the task will compare two methods of monitoring population change by comparing data from tuna vessels with data from research vessels.

C. PRODUCT/SERVICES: Products of the program are used by NMFS offices charged with drafting management measures for U.S. tuna fishery in the ETP.

D. CLIENTS: At least 5 years of data are required to detect a significant decline in the population with 90% confidence using data analyzed by this task. The information generated is used by NMFS to evaluate management options for protection of the ETP dolphin stocks as prescribed by the MMPA and for management of the annual U.S. fishery for tuna in the ETP. Up-to-date information on the condition of the dolphin populations is key requirement for evaluating and selection of an option.

E. CONTRACTS:

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
DeMaster, Douglas	Wildlife Bioligist	GM/15	100	8L1C4VA2
Gerrodette, Timothy	Operations Research Analyst	GM/13	100	8L1C4VA1
Ratcliffe, Clifford	Secretary	GS/6/3	100	8L1C4VA2

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C4VA1	M	1	Submit cruise report on ETP dolphin abundance from 1990 MOPS cruise (IWC)			J					
8L1C4VA1	A	2	Execute 1991 MOPS cruise			X	X	D			
8L1C4VA1	E	3	Prepare report on CAST analysis				S				
8L1C4VA1	M	4	Prepare report on trend analysis for MOPS cruises (data 1986 - 1990)				S				

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STRATEGIC PLAN
GOAL #: 4 OBJ #: 2

TITLE ->	Biological Assessment Program				
TASK NAMES ->	Biological Assessment	Photogrammetry			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5VU1	8L1A5VR4			
DIRECT LABOR	242.4	107.4			349.8
PERS. BENEFITS	39.9	16.4			56.3
TRAVEL	3.0	5.0			8.0
TRANSPORTATION	0	0			0
RENT,COMM.,UTIL.	0	0			0
PRINT/REPROD.	0	0			0
CONTRACTS	0	47.8			47.8
SUPPLIES/MATERIAL	22.0	12.5			34.5
EQUIPMENT	0	0			0
GRANTS	0	0			0
TOTALS	307.3	189.1			496.4
FTE (FTP)	6.5	2.75			9.25
FTE (OTFTP)	.5	1.0			1.5
APPROVAL SIGNATURE					HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Biological Assessment Prg.	SWC-La Jolla	9.25	496.4	Andrew Dizon	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The primary objective of this program is to use trends in various life history parameters to determine if these stocks are increasing or not. The work is focused primarily on ETP dolphins. This program is also responsible for photographing dolphin schools during the research vessel cruise and for determing the stock structure of dolphins in the ETP.

B. METHODOLOGY/APPROACH: Specifically, this year we are studying how sex ratios and other reproductive and physiological parameters respond to various levels of fishing pressure, population size, or forage density in the eastern tropical Pacific populations. As in years past, we will process, curate, and archive dolphin life history data and specimens. Our estimates of reproductive rates and other vital rates; of indexes that reflect fishing pressure, density, or condition; and of stock structures are based primarily on specimens and data collected by NMFS and IATTC technicians aboard commercial seiners.

C. PRODUCT/SERVICES: The products are used, in connection with information on population size and density, to meet the mandated requirements of the Marine Mammal Protection Act concerning the gathering of information for determination of "significantly impacted" and "impacted by whom or what" as well as the providing information on trends in relative abundance of stocks that interact with fisheries to the Secretary.

D. CLIENTS: Products are used by other tasks in the Division as well as other groups in NMFS and in the industry charged or involved with management measures for ETP U.S. tuna fishery.

E. CONTRACTS: OAO (helicopter operations) - $85.0k

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Dizon, Andrew	Fishery Biologist	GS/13	100	8L1A5VR4
Myrick, A.	Wildlife Biologist	GS/13/7	100	8L1A5VU1
Majors, T.	Fishery Biologist	GS/9/9	100	8L1A5VU1
Chivers, S.	Fishery Biologist	GS/9/2	100	8L1A5VU1
Gilpatrick, J.	Fishery Biologist	GS/9/1	100	8L1A5VR4
Akin, P.	Fishery Biologist	GS/7/8	100	8L1A5VU1
Miller, R.	Biological Technician	GS/8/8	50	8L1A5VU1
Lynn, M.	Fishery Biologist	GS/7/1	100	8L1A5VR4

MILESTONE ARRAY

				FY 91				92		93	
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	1	2	3	4	1	2	1	2
8L1A5VU1	A	1	Process and curate life history specimens from ETP dolphins	X	X	X	X	X	X	X	X
8L1A5VU1	M	2	Prepare report on stock structure of ETP dolphins			J					
8L1A5VU1	E	3	Develop model to investigate how density dependent changes would affect trends in life history parameter			M					
8L1A5VR4	M	4	Submit report on how to incorporate calibration data into MOPS analysis			A					
8L1A5VR4	A	5	Execute helicopter portion of 1990 and 1991 MOPS cruises	X			X				
8L1A5VR4	E	6	Prepare analysis of photo-calibration results for each observer (data 1987, 1988, 1989, 1990)		M						

SWR	530	1 OF 4

STRATEGIC PLAN
GOAL #: 4 OBJ #: 2

TITLE ->	Dolphin Ecology Program				
TASK NAMES ->	Fish. Dep. Assessment				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A6AW1				
DIRECT LABOR	222.1				222.1
PERS. BENEFITS	33.3				33.3
TRAVEL	8.0				8.0
TRANSPORTATION	0				0
RENT,COMM.,UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	11.0				11.0
SUPPLIES/MATERIAL	11.5				11.5
EQUIPMENT	0				0
GRANTS	0				0
TOTALS	285.9				285.9
FTE (FTP)	4.0				4.0
FTE (OTFTP)	1.75				1.75
APPROVAL SIGNATURE					HE CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Dolphin Ecology Program	SWC-La Jolla	4.0	285.9	Steve Reilly	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: In addition to the research vessel surveys, the SWC will be evalu ating dolphin encounter rate data collected by observers aboard tuna vessels for use as an index to changes in the relative abundance of ETP dolphins. The basic approach of the program is to define and identify various attributes of the fishery, describe the environmental features that affect dolphin distribution, and examine various subsampling and stratification schemes. In FY91 the primary emphasis of the program will be to summarize the influence of environmental variability on the distribution of dolphins and to modify the analysis of RVOD for trends in dolphin abundance based on environmental data.

B. METHODOLOGY/APPROACH: Environmental data from CTDs, BTs, flow-thorough temperature/salinity, fluorescence sensors, satellite imagery, and other sources as available will be used to describe then be estimated each year and the relative abundance index will be adjusted by this factor. In addition, environmental data will be used to standardize encounter rate data collected by observers on tuna vessels. In addition, a model, developed to simulate the type of data observers on tuna vessels collect, will be used to test for bias and precision in estimates based in RVOD.

C. PRODUCT/SERVICES: The data and results will be used in combination with data from the Biology Program and from research vessels surveys (MOPS) to determine whether the relative number of dolphins in the ETP are increasing or decreasing, and if decreasing, to determine if the observed decline is at least in part related to the U.S. tuna fleet. In addition, recommendations on coverage rates for observers and on the influence of sundown sets on total mortality will be produced.

D. CLIENTS: Data will be used by SWC personnel to determine trends in the relative abundance of dolphin stocks in the ETP. Final reports will be submitted to the SWR office and will be used in developing a management program for ETP dolphins.

E. CONTRACTS: AOML (Oceanography) - 11.0k

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Reilly, S.	Fishery Biologist	GM/14/2	100	8L1A6AW1
Oliver, C.	Fishery Biologist	GS/12/4	100	8L2A6AW1
Fiedler, P.	Oceanographer	GS/12/2	100	8L1A6AW1
Philbrick, V.	Oceanographer	GS/7/2	100	8L1A6AW1

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A6AW1	M	1	Complete manuscript on how to incorporate habitat data into MOPS analysis	N							
8L1A6AW1	A	2	Curate an manage ETP oceanographic part of MOPS 90 and 91	X			X				
8L1A6AW1	A	3	Coordinate ancillary research on MOPS cruises	X			X				
8L1A6AW1	E	4	Prepare summary document on ETP habitat from previous MOPS cruises		A						

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STRATEGIC PLAN
GOAL #: 4 OBJ #: 1, 2

TITLE ->	Coastal Marine Mammal Program				
TASK NAMES ->	Coastal Mar. Mamm.	Coast. MM Obs. Prgm.			
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5VR1	8L2B1PAA			
DIRECT LABOR	120.6	47.5			168.1
PERS. BENEFITS	19.2	7.5			26.7
TRAVEL	4.2	0			4.2
TRANSPORTATION	5.0	0			5.0
RENT,COMM.,UTIL.	0	0			0
PRINT/REPROD.	0	0			0
CONTRACTS	33.5	0			33.5
SUPPLIES/MATERIAL	7.5	10.0			17.5
EQUIPMENT	0	0			0
GRANTS	0	0			0
TOTALS	190.0	65.0			255.0
FTE (FTP)	3.0	1.0			4.0
FTE (OTFTP)	0	1.0			1.0
APPROVAL SIGNATURE					HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Coastal Marine Mammal Prg.	SWC-LA Jolla	4.0	255.0	Jay Barlow	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task investigates changes in coastal marine mammal populations associated with human activities (e.g. research, commercial fisheries, etc.). The task provides information so that the status of stocks of certain species can be determined, allowing NMFS to fulfill requirements under the Marine Mammal Protection Act.

B. METHODOLOGIES/APPROACH: During FY91 this task is to census California sea lion and elephant seal rookeries, investigate pup production and food habits, update status of stock reports for California harbor porpoise, sea lions, elephant seals, and harbor seals, and conduct studies on movement patterns and exchange rates in harbor seal populations to assess stock discreetness. Also, initiate studies on humpback whales in California, Mexico and vaquita in Mexico.

C. PRODUCT/SERVICES: The information produced by this task will primarily be used by NMFS management personnel to 1) develop actions to protect stocks of California marine mammals from unnecessary fishery mortality; 2) determine allowable take for display purposes; and 3) evaluate the effects of incidental take of marine mammals by coastal fisheries on the health of overall ecosystems.

D. CLIENTS: Products provided by this task are used by NMFS offices charged with drafting measures to control the take of coastal marine mammals.

E. CONTRACTS:
1) CDF&G $25.0k - Aerial survey of harbor porpoise
2) Private $ 2.0k - Flight time for surveys of Channel Islands
3) Private $ 2.5k - Film processing
4) UCSD $ 2.5k - Flight time for coastal cetaceans

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Barlow, Jay	Sup. Ops. Research Ana.	GM/13	100	8L1A5VR1
Lowry, Mark	Fishery Biologist	GS/9/4	100	8L1A5VR1
Lennert, Cleridy	Statistician	GS/9/2	100	8L1A5VR1
Forney, Karin	Operation Research Ana.	GS/9/2	100	8L2A5VR1

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A5VR1	E	1	Assist California Department of Fish and Game in the censusing of harbor porpoise in California	X							
8L1A5V51	A	2	Census and assist in the censusing of sea lion and elephant seal pups in California		X	X					
8L1A5VR1	A	3	Update status of stock reports on coastal marine mammals	X	X	X	X	X	X	X	X
8L1A5VR1	A	4	Curate and manage life history material from coastal gill net fishery	X	X	X	X	X	X	X	X
8L1A5VR1	A	5	Advise SWR and F/PR on mortality rates in coastal gill net fishery	X	X	X	X	X	X	X	X
8L1A5VR1	A	6	Prepare report on gill net mortality for IWC Workshop	N							

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STRATEGIC PLAN
GOAL #: 4 OBJ #: 3

TITLE ->	Fishery-Dependent Analysis Program				
TASK NAMES ->	Tuna Vess. Obs. Prgm.				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A6AW2				
DIRECT LABOR	68.2				68.2
PERS. BENEFITS	11.1				11.1
TRAVEL	1.0				1.0
TRANSPORTATION	0				0
RENT,COMM.,UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	0				0
SUPPLIES/MATERIAL	1.5				1.5
EQUIPMENT	0				0
GRANTS	0				0
TOTALS	81.8				81.8
FTE (FTP)	1.0				1.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

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APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fishery-Dependent Anal. Prg.	SWC-La Jolla	1.0	81.8	E. Edwards	Resource Information

A. PROBLEM STATEMENT: This task investigates patterns in dolphin mortality from the U.S. and non-U.S. fleets. The task provides the SWR with information on the best way to carry out comparability tests, identify good/bad skippers, and conduct power analyses of trend and mortality studies.

B. METHODOLOGIES/APPROACH: During FY91 this task will evaluate option for applying comparability tests between the U.S. and non-U.S. fleet, given the small size of the U.S. fleet. Additional, a review of skipper performance (U.S. fleet) will be completed. Finally, a power analysis on TVOD trend data will be completed.

C. PRODUCT/SERVICES: The information produced by this task is primarily used by NMFS to manage tuna/porpoise in the ETP and to respond to the Congressional mandate to monitor trends in abundance of porpoise stocks.

D. CLIENTS: Products are provided to the SWR, F/PR, State Department and IATTC.

C. CONTRACTS: None.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Elizabeth Edwards	Fishery Biologist	GM/13/2	100	8L1A6AW2
Cheryl Glick	Statistician	GS/7/1	100	8L1A6AW2

MILESTONE ARRAY

				FY 91				92		93	
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	1	2	3	4	1	2	1	2
8L1A6AW2	E	1	Prepare report on marine mammal sightings based on U.S. skipper logs (1972-data)			A					
8L1A6AW2	A	2	Review dolphin mortality statistics, and advise SWR on areas U.S. fleet could improve	X	X	X	X	X	X	X	X
8L1A6AW2	E	3	Review U.S. skipper performance over last 4 years and prepare report	X	X	X	S				
8L1A6AW2	M	4	Review TVOD trend data and prepare report on 10 year "windows" and statistical power	X	X	X	S				

CURRENT YEAR OPERATING PLAN
FY 1991

FMC	REF. NO.	PAGE
SWC	601	1 OF 7

STRATEGIC PLAN
GOAL #: 2 OBJ #: 2

TITLE ->	Antarctic Ecosytem Research Group				
TASK NAMES ->	Ecosystem	Krill Asse	Fish Pop	Operations	
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1A6H01	8L1A6H02	8L1A6H03	8L1A6H04	
DIRECT LABOR	83.4	66.4	31.9	5.5	187.2
PERS. BENEFITS	13.4	10.6	5.3	0.0	29.3
TRAVEL	63.5	9.0	5.0	47.2	124.7
TRANSPORTATION	0.0	0.0	0.0	8.0	8.0
RENT,COMM.,UTIL.	2.0	3.0	5.0	1.4	11.4
PRINT/REPROD.	0.0	0.0	0.0	0.0	0.0
CONTRACTS	482.7	168.6	46.8	125.0	823.1
SUPPLIES/MATERIAL	2.0	1.0	2.0	18.4	23.4
EQUIPMENT	3.0	62.0	0.0	27.9	92.9
GRANTS	0.0	0.0	0.0	0.0	0.0
TOTALS	650.0	320.6	96.0	233.4	1300.0
FTE (FTP)	1.0	1.0	1.0	0.0	3.0
FTE (OTFTP)	1.0	0.5	0.0	0.0	1.5

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
122	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY	FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Antarctic Eco. Res. Group	La Jolla,CA	3.0	1300.0	R. Holt	Resource Management

A. PROBLEM STATEMENT/OBJECTIVE:

The U.S. Antarctic Marine Living Resources (AMLR) program provides information needed to formulate U.S. policy on conservation and international management of resources living in the oceans surrounding Antarctica. The program was established by Public Law 98-623 to provide advice to the U.S. delegation to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR), part of the Antarctic treaty system. The AMLR program is managed by the Antarctic Ecosystem Research Group located at the Southwest Fisheries Science Center.

B. METHODOLOGY/APPROACH:

The AMLR program will be divided into four tasks: (1) Ecosystem Monitoring which will monitor research to determine effects of studies of primary productivity, physical oceanography, land-based and pelagic predators, and satellite oceanography. This task will investigate standardized data collection methods and reporting system for use by CCAMLR. This task will also conduct AMLR Advisory Panel meetings, the pre-CCAMLR meeting, and coordinate scientific presentations and participation at CCAMLR meetings. This task will complete the annual update of the Program Development Plan. (2) Krill Stock Assessment which will monitor research to determine effects of krill and zooplankton net sampling, and acoustic sampling. This task will also assemble and test new acoustic system. (3) Fish/Krill Population Dynamics which will review papers on the status of fish stocks submitted to CCAMLR, attend and participate in CCAMLR Fish Stock Assessment and scientific committee meetings. A fish stock population biologist will be hired to obtain and analyze fish catch data. (4) Field Operations which will design, coordinate and conduct activities undertaken during the field season in accordance with the long-range Antarctic research strategy.

C. PRODUCT/SERVICES:

Reports and technical papers are prepared to meet U.S. obligations to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR). Scientific papers are prepared for publication. Task members will participate in CCAMLR working groups and other international meetings to address conservation issues and assess relevant scientific information.

D. CLIENTS:

Information provided by the tasks will be used by the State Department to formulate U.S. positions on Antarctic resource conservation, by the U.S. AMLR program to adjust its long-range research strategy, by the CCAMLR Scientific Committee, and by other governments and researchers working in the Antarctic.

E. CONTRACTS:

Primary productivity survey, physical oceanography studies, direct sampling for krill, acoustic sampling for krill, zooplankton sampling, krill distribution analysis, krill patch/distribution, krill historical data analysis, bird monitoring, predator studies.

FMC	REF. NO.	PAGE
SWC	601	3 of 7

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Rennie S. Holt	Fishery Biologist	GM/15	100	8L1A6H01
2. Jane E. Rosenberg	General Biologist	GS/7 (Temporary)	100	8L1A6H01
3. Roger P. Hewitt	Fishery Biologist	GM/14	100	8L1A6H02
4. Vacant	Krill Acoustician	GS/9 (Temporary)	50	8L1A6H02
5. Stephanie N. Sexton	Operations Res. Analyst	GS/11	100	8L1A6H03

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A6H01	A	1	Monitor research to determine effects of primary productivity studies.	X	X	X	X				
8L1A6H01	A	2	Monitor research to determine effects of physical oceanography studies.	X	X	X	X				
8L1A6H01	A	3	Coordinate land-based and pelagic predator studies conducted by NMML and Point Reyes Bird Observatory.	X	X	X	X	X	X	X	X
8L1A6H01	A	4	Coordinate satellite oceanography studies undertaken by NOAA's Office of Research and Applications.	X	X	X	X	X	X	X	X
8L1A6H01	A	5	Investigate standardized data collection methods and reporting system for use by CCAMLR.	X	X	X	X	X	X	X	X
8L1A6H01	E	6	Conduct AMLR Advisory Panel meeting.		X						
8L1A6H01	E	7	Conduct pre-CCAMLR meeting.			X					
8L1A6H01	M	8	Coordinate scientific presentations and participation at CCAMLR working group, scientific committee, and Commission meetings.	X							
8L1A6H01	E	9	Complete annual update of Program Development Plan for presentation to Congress.	X	X						

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A6H02	E	10	Acquire and test software for displaying, analyzing, and archiving acoustic krill survey data.	X	X						
8L1A6H02	E	11	Assemble and field test components of new acoustic system.	X							
8L1A6H02	A	12	Conduct 1990-91 field work and analyze data.	X	X	X	X				
8L1A6H02	A	13	Monitor research to determine effects of krill net sampling studies.	X	X	X	X				
8L1A6H02	A	14	Monitor research to determine effects of zooplankton net sampling studies.	X	X	X	X				
8L1A6H02	E	15	Write krill component of field season report.		X	X					
8L1A6H02	M	16	Complete report on evaluation of new acoustic system.				X				
8L1A6H02	E	17	Contribute to collaborative papers on results of 1990-91 field season.			X	X	X			
8L1A6H02	A	18	Investigate feasibility of conducting South African cooperative analysis of krill hydroacoustic data.			X	X	X	X		
8L1A6H02	M	19	Prepare survey design for 1991-92 field work.			X	X	X			

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1A6H03	A	20	Review papers on status of fish stocks submitted to CCAMLR.	X		X	X	X	X	X	X
8L1A6H03	M	21	Attend and participate in meeting of CCAMLR Scientific Committee and Working Group on Fish Stock Assessment.	X				X		X	
8L1A6H03	E	22	Hire fish stock population biologist.			X					
8L1A6H03	A	23	Obtain and analyze fish catch data.				X	X	X	X	X
8L1A6H03	A	24	Prepare report on population demography and abundance trends of selected fish stocks.					X		X	
8L1A6H03	A	25	Investigate population demography and abundance trends of krill.			X	X	X	X	X	X

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A6H04	A	26	Design cruise in accordance with long range AMLR research strategy.	X			X	X	X	X	
8L1A6H04	E	27	Prepare and distribute cruise announcement and call for proposals.	X			X	X	X	X	
8L1A6H04	A	28	Evaluate research proposals and negotiate contracts and/or cooperative agreements.	X			X	X	X	X	
8L1A6H04	E	29	Complete contracts and/or cooperative agreements.	X				X		X	
8L1A6H04	A	30	Prepare and distribute draft and final cruise plans.	X	X		X	X	X	X	
8L1A6H04	A	31	Manage cruise logistics and convene pre-cruise and post-cruise meetings.	X	X	X	X	X	X	X	X
8L1A6H04	E	32	Conduct cruise.	X	X			X		X	
8L1A6H04	M	33	Prepare and distribute cruise report.			X			X		X

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

HONOLULU LABORATORY

TITLE ->	Honolulu Lab - Director's Ofc. & Admin.				
TASK NAMES ->	Dir.	Admin.			\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	9WGN40H1	9WGN40H2			
DIRECT LABOR	92.0	156.6			248.6
PERS. BENEFITS	12.3	21.9			34.2
TRAVEL	9.0	1.5			10.5
TRANSPORTATION	0.0	16.0			16.0
RENT,COMM.,UTIL.	1.0	50.0			51.0
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	0.0	26.4			26.4
SUPPLIES/MATERIAL	2.2	15.9			18.1
EQUIPMENT	2.1	0.0			2.1
GRANTS	3.0	0.0			3.0
TOTALS ->	121.6	288.3			409.9
FTE (FTP)	1.8	5.5			7.3
FTE (OTFTP)	0.0	0.5			0.5

STRATEGIC PLAN

GOAL #: MGT OBJ #:

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
D.O. OFFICE & ADMIN.	HON. LAB.	7.8	409.9	G. BOEHLERT	MANAGEMENT FUND

A. PROBLEM STATEMENT/OBJECTIVE: TO PROVIDE OVERALL MANAGEMENT AND ADMINISTRATION OF BOTH HUMAN AND FISCAL RESOURCES FOR THE HONOLULU LABORATORY.

B. METHODOLOGY/APPROACH: PROVIDE GUIDANCE FOR OVERALL OPERATIONS AND SCIENTIFIC PROGRAM OF HONOLULU LABORATORY. MAINTAIN AND IMPROVE INTERNAL CONTROLS AND STREAMLINE OPERATING PROCEDURES.

C. PRODUCT/SERVICES: PROVIDE EFFICIENT DAY-TO-DAY ADMINISTRATION OF THE HONOLULU LABORATORY IN AREAS OF PROCUREMENT, PERSONNEL AND FACILITY MAINTENANCE; FLOW OF INFORMATION/PRODUCTS TO OUTSIDE AGENCIES AND THE PUBLIC.

D. CLIENTS: SOUTHWEST REGION, WESTERN PACIFIC REGIONAL FISHERIES MANAGEMENT COUNCIL, FISHING INDUSTRY, GENERAL PUBLIC.

E. CONTRACTS: CONTRACTING OF JANITORIAL IS REQUIRED FOR THE HEALTH AND SAFETY OF STAFF.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. BOEHLERT, GEORGE W.	DIRECTOR	GM/15	75	9WGN40H1
2. YUKIHIRO, CAROL A.	SECRETARY	GS-7/10	100	9WGN40H1
3. YEE, KARENA S. H.	ADMINISTRATIVE OFFICER	GS-11/3	100	9WGN40H2
4. NAKAGAWA, JO-ANNE L.	BUDGET ANALYST	GS-7/5	100	9WGN40H2
5. DUTRO, MELVIN J. SR.	MAINT. MECHANIC	WG/7/03	100	9WGN40H2
6. DONG, BONNIE Y.	ADM. SUPPORT CLERK	GS-5/9	100	9WGN40H2
7. TBN	ADM. SUPPORT CLERK	GS-4/5	100	9WGN40H2
8. WONG, GLORIA	SECRETARY	GS-4/1	50	9WGN40H2
TEMPORARIES:				
1. TBN	CLERK	GS-4/1	50	9WGN40H2

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
9WGN40H2	A	1	PROVIDE OVERALL MANAGEMENT AND ADMINISTRATIVE SUPPORT IN THE AREAS OF BUDGET, CONTRACTING,AND PROCUREMENT FOR THE HONOLULU LABORATORY	O	-	-	-	-	-	-	S
	A	2	MANAGE AND MAINTAIN FACILITY AND GROUNDS.	O	-	-	-	-	-	-	S
	A	3	PERFORM ALL ADMINISTRATIVE FUNCTIONS ASSOCIATED WITH PERSONNEL SERVICES.	O	-	-	-	-	-	-	S
	A	4	SERVE AS PRINCIPAL CONTACT WITH WESTERN ADMINISTRATIVE SUPPORT CTR	O	-	-	-	-	-	-	S
	A	5	ENSURE COMPLIANCE WITH ALL PERTINENT GOVERNMENTAL RULES AND REGULATIONS.	O	-	-	-	-	-	-	S
	A	6	DEVELOP PROPOSAL TO PIONEER FUND FOR CENTRAL AIR-CONDITIONING.	D							
9WGN40H1	A	7	DIRECT AND OVERSEE HONOLULU LABORATORY'S OPERATION, INCLUDING FACILITIES.	O	-	-	-	-	-	-	S
	A	8	PROVIDE GUIDANCE FOR OVERALL SCIENTIFIC PROGRAM OF HONOLULU LAB.	O	-	-	-	-	-	-	S
	A	9	SERVE AS FOCUS FOR COMMUNICATION OF HONOLULU LABORATORY SCIENTIFIC PROGRAMS WITH OUTSIDE AGENCIES AND THE PUBLIC.	O	-	-	-	-	-	-	S
	A	10	ALLOCATE FUNDING AND PERSONNEL TO ACHIEVE GOALS OF NMFS AND THE HONOLULU LABORATORY.	O	-	-	-	-	-	-	S

CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY					
TITLE ->	Data Management & Technical Services				
TASK NAMES ->	ADP - HL	SciServ HL	Library HL		\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C1AJ1	8L1C1AJ2	8L1C1AJ4		
DIRECT LABOR	237.0	126.4	39.3		402.7
PERS. BENEFITS	31.9	17.0	5.3		54.2
TRAVEL	0.0	0.0	0.0		0.0
TRANSPORTATION	0.2	0.0	0.0		0.2
RENT,COMM.,UTIL.	11.0	0.0	0.0		11.0
PRINT/REPROD.	0.0	0.0	0.0		0.0
CONTRACTS	0.0	8.0	0.0		8.0
SUPPLIES/MATERIAL	3.8	6.0	20.8		30.6
EQUIPMENT	0.0	0.0	0.0		0.0
GRANTS	0.0	0.0	0.0		0.0
TOTALS ->	283.9	157.4	65.4		506.7
FTE (FTP)	5.0	4.0	1.0		10.0
FTE (OTFTP)	2.9	0.9	0.0		3.8

STRATEGIC PLAN

GOAL #: ALL OBJ #:

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
DATA MANAGE. & TECH. SVC.	HON. LAB.	13.8	506.7	D. TIEMAN	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVES: DMTS provides for the data entry, verification, editing, maintenance, security, and documentation of gathered data; installation of hardware and software, system programming, consultation on ADP, coordination and consolidation of ADP purchases; provides scientific manuscript reviews, text preparation services, scientific illustrations, and graphics services in support of the scientific mission of the Honolulu Laboratory.

B. METHODOLOGY/APPROACH: Maintenance of the Local Area Network (LAN) and expansion of the telecommunication capabilities with non-3COM sites, in particular with the University of Hawaii; provide user training for hardware and software services available to lab personnel, and other facility-wide computer needs. Development and maintenance of an on-line library system; procurement of current scientific and computer publications; typing, filing, proof reading, and development of graphics for scientific publications.

C. PRODUCT/SERVICES: Products are provided in the form of typed manuscripts, correspondence, current scientific and computer reference materials, network access, hard copy and computer data, information, hardware maintenance, and computer supplies. Consultation and training services are provided in related fields.

D. CLIENTS: All members of the Honolulu Lab are recipients of products, supplies, and services provided by the Data Management and Technical Services task.

E. CONTRACTS: Contracts for computer support from the University of Hawaii, equipment maintenance, book bindings, and translations will continue to be required.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. TIEMAN, DONALD R.	SUPERVISORY COMP.SYS. ANAYST	GS-12/2	100	8L1C1AJ1
2. KUBA, SALLY H.	COMPUTER PROGRAMMER	GS-9/6	100	8L1C1AJ1
3. TAGAMI, DARRYL T.	OP. RES. ANALYST	GS-9/4	100	8L1C1AJ1
4. HIGUCHI, WAYDE S.	COMPUTER PROGRAMMER	GS-9/2	100	8L1C1AJ1
5. TSUKANO, LUCILLE T.	COMPUTER AIDE	GS-6/10	100	8L1C1AJ1
PTP:				
1. PAPPAS, JANET L.	COMPUTER PROGRAMMER	GS-9/2	80	8L1C1AJ1
TEMPORARIES:				
1. MIYAMOTO, BRENT M.	COMPUTER ASSISTANT	GS-6/1	30	8L1C1AJ1
2. UYEDA, RICHARD I.	COMPUTER PROGRAMMER	GS-5/1	100	8L1C1AJ1
3. MASADA, STEFFINY M.	DATA TRANSCRIBER	GS-1/1	40	8L1C1AJ1
4. YANAGI, DORIS M.	DATA TRANSCRIBER	GS-1/1	40	8L1C1AJ1
FTP:				
1. WILLIAMS, LESLIE C.	TECH. PUB. WRITER/EDITOR	GS-11/2	100	8L1C1AJ2
2. BEASLEY, JUDITH L.	EDITORIAL ASSISTANT	GS-6/2	100	8L1C1AJ2
3. YAMAGUCHI, DEBORAH. H.	EDITORIAL CLERK	GS-5/1	100	8L1C1AJ2
4. AKAMINE, JOYCE J.	EDITORIAL CLERK	GS-5/4	100	8L1C1AJ2
PTP:				
1. ISHIDA, VIRGINIA L.	EDITORIAL CLERK	GS-5/10	90	8L1C1AJ2
FTP:				
1. NISHIMURA, HAZEL S.	LIBRARIAN	GS-11/8	30	8L1C1AJ4
2. TBN	INFORMATION SPECIALIST	GS-9/8	70	8L1C1AJ4

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C1AJ1	1	A	CAPTURE, EDIT, AND MAINTAIN COMPUTER PROCESSABLE DATA (MAINTAIN ADEQUATE SUPPLIES TO SUPPORT DATA GATHERING ACTIVITIES)	0	-	-	-	-	-	-	S
8L1C1AJ1	2	A	EVALUATE, PURCHASE, INSTALL APPLICATION SOFTWARE PACKAGES, SYSTEM HARDWARE, COMPONENTS AND PERIPHERALS. (PREPARE FOR IT-95 SYSTEM)	0	-	-	-	-	-	-	S
8L1C1AJ1	3	A	DESIGN, PROGRAM, TEST, INSTALL, AND OPERATE INHOUSE ADP SYSTEMS. (DEVELOPMENT OF AN ADMINISTRATIVE SUPPORT SYSTEM)	0	-	-	-	-	-	-	S
8L1C1AJ1	4	A	PROVIDE CONSULTATION, ASSISTANCE, AND TRAINING ON ADP RELATED ISSUES. (SETUP FORMAL TRAINING AREA WITHIN DMTS)	0	-	-	-	-	-	-	S
8L1C1AJ2	5	A	PROVIDE FOR/MONITOR FUNDING FOR USE OF UNIVERSITY OF HAWAII COMPUTING SERVICES.	0	-	-	-	-	-	-	S
8L1C1AJ2	6	A	PROVIDES MANUSCRIPT AND OTHER TEXT PREPARATION AND PROCESSING SERVICES.	0	-	-	-	-	-	-	S
8L1C1AJ4	7	A	PROVIDES SCIENTIFIC AND GRAPHIC ILLUSTRATION SERVICES.	0	-	-	-	-	-	-	S
8L1C1AJ4	8	A	PROVIDES SCIENTIFIC LIBRARY REFERENCE SERVICES.	0	-	-	-	-	-	-	S

CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

TITLE: Fishery Oceanography Research Program

TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A7A00				
DIRECT LABOR	90.8				90.8
PERS. BENEFITS	12.1				12.1
TRAVEL	4.2				4.2
TRANSPORTATION	1.0				1.0
RENT,COMM.,UTIL.	1.0				1.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	4.0				4.0
SUPPLIES/MATERIAL	6.5				6.5
EQUIPMENT	4.5				4.5
GRANTS	33.0				33.0
TOTALS ->	157.1				157.1
FTE (FTP)	1.3				1.3
FTE (OTFTP)	1.5				1.5

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL #: 3 OBJ #: 1

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	--
# FREE DAYS	

CROSS REFERENCES

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
FISHERY OCEANOGRAPHY RES.	HON. LAB.	2.8	157.1	G. BOEHLERT	RESOURCE INFORMATION

A. Problem statement/objective: The role of environmental and oceanographic variability in understanding fluctuations in fishery resources requires application of non-traditional technology for fisheries. The Fishery Oceanography Research Program conducts research on the ecology of fish and shellfish resources of island- associated ecosystems to better understand the effects of the ocean environment, particularly advection of early life history stages, on variability in these resources.

B. Methodology/approach: Island resources are often recruitment limited, and the relationship of the extensive planktonic larval/juvenile habitat to the spatially limited recruitment habitat is clearly of interest. Understanding recruitment mechanisms will require understanding the variability in advection or retention of early life history stages near islands. Distributional studies are combined with measurement of the variability in physical oceanography. Additional studies will test sampling gear for research on late larval and juvenile stages to better describe the habitat for all life history stages.

C. Product/Services: Output products from this task include information on ecological associations of different island species and provide basic data used for ecosystem models, fishery management plans, and environmental impact statements. Results are published in the scientific literature.

D. Clients: Results of the research, in the form of data and analysis, will be used by other research tasks, the NMFS Southwest Region, the Western Pacific Regional Fishery Management Council, the fishing industry, conservation groups, private consultants and contractors, and State of Hawaii agencies. Cooperation in studies of recruitment will also benefit international agencies with current programs in tropical regions.

E. Contracts: Joint Institute of Marine and Atmospheric Research, $33K, Visiting Scientist Program. Postdoctoral Associate in Fisheries Oceanography.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. BOEHLERT, GEORGE W.	FISHERY BIOLOGIST RESEARCH	GM-15	25	8L1A7A00
2. MUNDY, BRUCE C.	FISHERY BIOLOGIST RESEARCH	GS-11/1	100	8L1A7A00
PTP:				
1. YOSHIMOTO, RONALD K.	BIOLOGICAL AID	GS-4/1	96	8L1A7A00
TEMPORARIES:				
1. WILSON, CHRISTOPHER D.	FISHERY BIOLOGIST	GS-9/1	50	8L1A7A00

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A7A00	E	1	COMPLETE STUDY OF VERTICAL DISTRIBUTION OF ICHTHYOPLANKTON OFF OAHU; ISSUE TECHNICAL MEMORANDUM AND DRAFT PUBLICATIONS.				A				
	E	2	DEVELOP COOPERATIVE TROPICAL RECRUITMENT PROGRAM WITH OTHER ELEMENTS OF NMFS THROUGH NOAA COASTAL OCEAN PROGRAM.			J					
	A	3	ANALYSIS AND SAMPLE PROCESSING OF OCEANOGRAPHIC-RECRUITMENT STUDY OF LARVAL AND POSTLARVAL FISH AROUND PALMYRA ATOLL.	O	-	-	-	-	S		
	A	4	COLLABORATE WITH JIMAR AND UNIVERSITY OF HAWAII TO ESTABLISH EN- VIRONMENTAL DATA BASES, REMOTE SENSING CAPABILITY, AND INTERCONNECT COMPUTING SYSTEMS.	O	-	-	-	-	S		
	M	5	COMPLETE AND PUBLISH MANUSCRIPT ON VERTICAL DISTRIBUTION OF SCOMBRID LARVAE AROUND OAHU.		M						
	M	6	COMPLETE STUDY OF BIOLOGICAL AND PHYSICAL OCEANOGRAPHY AROUND SE HANCOCK SEAMOUNT.					D			
	M	7	COMPLETE MANUSCRIPT ON NORTH PACIFIC BIOGEOGRAPHY OF MAUROLICUS MUELLERI.			A					
	E	8	DRAFT PAPER ON PELAGIC ECOSYSTEM (ICHTHYOPLANKTON AND MICRONEKTON) OVER HANCOCK SEAMOUNT (FROM CYOP 731).			M					
	E	9	COMPLETE STUDY OF THE ECOLOGY AND LIFE HISTORY OF SPINY DOGFISH AT HANCOCK SEAMOUNT.				J				

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	720	1 OF 4

RESOURCE SUMMARY	
TITLE	Pelagic Stock Assessment Program

TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1C5AC0	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	98.9				98.9
PERS. BENEFITS	13.9				13.9
TRAVEL	7.0				7.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	4.0				4.0
EQUIPMENT	3.4				3.4
GRANTS	0.0				0.0
TOTALS ->	127.2				127.2
FTE (FTP)	1.3				1.3
FTE (OTFTP)	1.0				1.0

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL #: 2 OBJ #: 2

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	
# FREE DAYS	

CROSS REFERENCES

721
722

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
PELAGIC STOCK ASSESSMENT	HON. LAB.	2.3	127.2	J. WETHERALL	RESOURCE INFORMATION

A. Problem statement/objectives: Program conducts scientific research and stock assessments for South Pacific albacore and other pelagic resources. Program provides quantitative support for Hawaiian sea turtle monitoring and recovery program.

B. Methodology/approach: Program constructs, tests, and applies mathematical models and statistical procedures to fishery statistics, life history data, and survey results.

C. Products/services: Products include administrative and technical reports, workshop papers, and manuscripts for publication.

D. Clients: Program provides scientific advice for NMFS fishery managers and State Department negotiators in South Pacific. Program provides quantitative advice and support to Hawaiian sea turtle recovery team and guidance to U.S. Fish and Wildlife Service regarding green turtle nesting population surveys.

E. No contracts.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. WETHERALL, JERRY A.	SUPERVISORY FISH. BIOLOGIST	GM-14	50	8L1A5AC0
2. YONG, MARIAN Y.Y.	MATHEMATICIAN	GS-11/10	75	8L1A5AC0
TEMPORARIES:				
1. YANO, SHIGERU	RES. LAB. MECHANIC	WG-5/3	100	8L1A5AC0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C5AC0	A	1	COMPLETE AGE/SIZE BASED MODEL OF SOUTH PACIFIC ALBACORE STOCK AND FISHERY DYNAMICS (SPREADSHEET MODEL), AND PREPARE DOCUMENTATION.	X	-	-	X				
	E	2	UPDATE SOUTH PACIFIC ALBACORE LONGLINE FISHERY CPUE INDICES AND PREPARE REPORT FOR SPAR III WORKSHOP.	X	-	-	-	-	-	-	X
	A	3	EXTEND/UPDATE MODEL OF SOUTH PACIFIC ALBACORE GROWTH, INCLUDING EXAMINATION OF OTOLITHS FROM LARGE FISH AND LENGTH FREQUENCY DATA.	X	-	-	X				
	A	4	REVISE SURPLUS PORDUCTION MODEL FOR SOUTH PACIFIC ALBACORE USING UPDATED FISHERY STATISTICS.	D							
	E	5	ISSUE SOUTH PACIFIC ALBACORE STOCK STATUS REPORT.			M					
	A	6	COMPLETE ANALYSIS OF HISTORICAL EAST ISLAND GREEN TURTLE NESTING POPULATION AND MONTE CARLO ANALYSIS OF TREND DETECTION METHODS.		M						
	E	7	COMPLETE MANUSCRIPT ON NUMERICAL MODELS FOR GREEN SEA TURTLE POPULATION DYNAMICS.				S				

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	721	1 OF 4

RESOURCE SUMMARY

TITLE ->	Pelagic Ecosystem Program				
TASK NAMES ->					\/
OBJECT CLASS	TASK #1 8L1A6AK0	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	67.6				67.6
PERS. BENEFITS	9.1				9.1
TRAVEL	2.0				2.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	2.7				2.7
EQUIPMENT	4.4				4.4
GRANTS	0.0				0.0
TOTALS ->	85.8				85.8
FTE (FTP)	1.0				1.0
FTE (OTFTP)	1.0				1.0

STRATEGIC PLAN

GOAL #: 3 OBJ #: 1

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	
# FREE DAYS	

CROSS REFERENCES

720
722
724

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
PELAGIC ECOSYSTEM PROGRAM	HON. LAB.	2.0	85.8	C. BOGGS	INFO. ANAL. & DISSEM.

A. Problem statement/objectives: Proper scientific assessment of stocks of tropical tuna and other pelagic stock. Detection of trends, forecasting of yields, and improved harvest efficiency depend on an increased understanding of tuna distribution dynamics and vital rates. This task provides information on biology and pelagic ecosystem relationships relevant to the distribution, movement, fluctuation, and turnover of these stocks in the central and western Pacific.

B. Methodology/approach: The approach of this task is to synthesize biological data collected through fieldwork, laboratory experiments and fisheries sampling, along with environmental data, and fisheries data, to develop and test models of tuna distribution, movement, and availability. Emphasis is placed on distinguishing between the effects of environmental factors and the effects of fisheries; particularly within limited-range, island-based fisheries where fishery interaction questions are a management issue.

C. Products/services: The principal products this year will include a paper on a new method of adjusting longline fishing efficiency for tuna and billfish, a paper on tuna swimming energetics, a summary of morphometric variation in yellowfin tuna in Hawaii, and an analysis of catch rates by small-vessel tuna fisheries in Hawaii in relation to large-scale longline fishery development.

D. Clients: Clients are national and local government agencies who use the products to assess fishery policies and management alternatives. Fishery biologists use the products to advance their research on similar questions. Studies promote international cooperation in research and management. The U.S. fishing industry uses products to improve harvest efficiency and make investment decisions.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. BOGGS, CHRISTOFER H.	FISHERY BIOLOGIST	GS-12/3	100	8L1A6AK0
TEMPORARIES:				
1. KOCH, LINDA A.	BIOLOGICAL AID	GS-5/1	100	8L1A6AK0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A6AK0	M	1	SUBMIT PAPPER ON THE USE OF HOOK TIMERS AND TDRs TO TEST MODELS OF TUNA/BILLFISH/SHARK HABITATS AND VULNERABILITY TO LONGLINE GEAR.		M						J
	M	2	REVISE AND SUBMIT PAPER ON TUNA SWIMMING ENERGETICS MODEL.				S				
	E	3	COMPLETE SUMMARY OF RESULTS OF HAWAII MARKET SAMPLING FOR MORPHOMETRIC VARIATION AND SIZE FREQUENCY DISTRIBUTION OF YELLOWFIN TUNA.			A					
	A	4	DEVELOP BETTER MEASURES OF RELATIVE ABUNDANCE AND GEAR VULNERABILITY FOR SPECIES CAUGHT IN THE HAWAII LONGLINE FISHERY.	-	-	-	-	-			
	A	5	INVESTIGATE FEASABILITY OF TAG-RECAPTURE PROGRAM TO MEASURE FISHERY INTERACTION IN THE HAWAII/CENTRAL PACIFIC AREA.				-	-	-		
	A	6	CONDUCT ANALYSES AND REVIEW DATA IN SUPPORT OF AMMENDING THE WPRFMC PELAGIC FMP TO INCLUDE TUNAS.		?	-	-	-	-	-	-

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	722	1 OF 4

RESOURCE SUMMARY

TITLE ->	Pelagic FMP Research Program				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C2A00				
DIRECT LABOR	150.1				150.1
PERS. BENEFITS	19.0				19.0
TRAVEL	1.3				1.3
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	27.7				27.7
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS ->	198.1				198.1
FTE (FTP)	3.0				3.0
FTE (OTFTP)	0.5				0.5

STRATEGIC PLAN

GOAL #: 2 OBJ #: 1,2

VESSELS # SEA DAYS ALLOC.	
46	
NOAA	CHARTERS
46	
# FREE DAYS	

CROSS REFERENCES

720
721
724

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
PELAGIC FMP RES. PROGRAM	HON. LAB.	3.5	198.1	R. SKILLMAN	RESOURCE INFORMATION

A. Problem statement/objectives: Program research, analysis, and advice improves scientific basis for pelagic fishery management decisions in the Western Pacific Region essential for implementing the Magnuson Fishery Conservation and Management Act.

B. Methodology/approach: Program conducts at-sea research surveys, collects and analyzes biological specimens from fish markets, and analyzes fishery statistics. Program provides scientific advice for pelagics FMP development and monitoring.

C. Products/services: Program issues administrative and technical reports, scientific manuscripts for publication, and technical advisory information for fishery managers.

D. Clients: NMFS management and Western Pacific Regional Fishery Management Council rely on program products for fishery management decisions. Fishing industry benefits directly from reports and information briefs.

E. Contracts: None.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. SKILLMAN, ROBERT A.	SUPERVISORY FISH. BIOLOGIST	GM-13	100	8L1C2A00
2. UCHIYAMA, JAMES H.	FISHERY BIOLOGIST RES.	GS-11/8	100	8L1C2A00
3. SAMPAGA, JEFFREY D.	BIOLOGICAL TECHNICIAN	GS-5/7	100	8L1C2A00
TEMPORARIES:				
1. TBN	BIOLOGICAL TECHNICIAN	GS-5/1	50	8L1C2A00

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C2A00	A	1	COMPLETE AGE/SIZE BASED MODEL OF SOUTH PACIFIC ALBACORE STOCK AND FISHERY DYNAMICS (SPREADSHEET MODEL), AND PREPARE DOCUMENTATION.	X	-	-	X				
	E	2	UPDATE SOUTH PACIFIC ALBACORE LONGLINE FISHERY CPUE INDICES AND PREPARE REPORT FOR SPAR III WORKSHOP.	X	-	-	-	-	-	-	X
	A	3	EXTEND/UPDATE MODEL OF SOUTH PACIFIC ALBACORE GROWTH, INCLUDING EXAMINATION OF OTOLITHS FROM LARGE FISH AND LENGTH FREQUENCY DATA.	X	-	-	X				
	A	4	REVISE SURPLUS PORDUCTION MODEL FOR SOUTH PACIFIC ALBACORE USING UPDATED FISHERY STATISTICS.	D							
	E	5	ISSUE SOUTH PACIFIC ALBACORE STOCK STATUS REPORT.			M					
	A	6	COMPLETE ANALYSIS OF HISTORICAL EAST ISLAND GREEN TURTLE NESTING POPULATION AND MONTE CARLO ANALYSIS OF TREND DETECTION METHODS.		M						
	E	7	COMPLETE MANUSCRIPT ON NUMERICAL MODELS FOR GREEN SEA TURTLE POPULATION DYNAMICS.				S				

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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RESOURCE SUMMARY

TITLE	NORTH PACIFIC ALBACORE DRIFTNET IMPACTS				
TASK NAMES ->					\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L2B5N02	8L2B5N01			
DIRECT LABOR	215.8	30.7			246.5
PERS. BENEFITS	27.7	5.1			32.8
TRAVEL	20.8	5.0			25.8
TRANSPORTATION	0.0	0.0			0.0
RENT,COMM.,UTIL.	5.0	8.0			13.0
PRINT/REPROD.	0.0	0.2			0.2
CONTRACTS	5.0	30.0			35.0
SUPPLIES/MATERIAL	6.0	3.0			9.0
EQUIPMENT	38.3	17.0			55.3
GRANTS	45.0	0.0			45.0
TOTALS ->	363.6	99.0			462.6
FTE (FTP)	2.1	0.5			2.6
FTE (OTFTP)	4.3	0.5			4.8

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL #: 1 OBJ #: 1

VESSELS # SEA DAYS ALLOC.	
28	
NOAA	CHARTERS
28	
# FREE DAYS	

CROSS REFERENCES

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
N. PACIFIC DRIFTNET IMPACT	HON. LAB.	9.2	626.1	J. WETHERALL	RESOURCE INFO.

A. Problem statement/objectives: Program provides support and advice for management decisions on North Pacific high-seas driftnets in regard to their impacts on albacore, other tunas, billfishes, and marine turtles. Program work mandated by federal legislation on high-seas driftnets, U.N. resolution on driftnet fishing, and bilateral agreements with foreign governments.

B. Methodology/approach: Program conducts surveys and biological research at sea and shoreside, analyzes fishery statistics and data collected by observers on driftnet vessels, and conducts quantitative assessments of driftnet impacts.

C. Product/services: Program provides technical expertise for negotiations, produces administrative and technical reports, advisory documents, and manuscripts for publication.

D. Clients: Program supports NMFS and State Dept. officials engaged in bilateral negotiations and responsible for policy decisions.

E. Contracts: Biological tissue analysis ($5K), Driftnet/troll fishery interactions Study ($30K).

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. WETHERALL, JERRY A.	SUPERVISORY FISH. BIOLOGIST	GM-14	50	8L2B5N02
2. BARTOO, NORMAN	SUPERVISORY FISH. BIOLOGIST	GM-13	20	8L2B5N01
3. SEKI, MICHAEL	FISHERY BIOLOGIST	GS-11/1	100	8L2B5N02
4. HOLTS, DAVID	FISHERY BIOLOGIST	GS-11	33	8L2B5N01
5. BRILL, RICHARD W.	FISHERY BIOLOGIST	GM-13	20	8L2B5N02
6. BALAZS, GEORGE H.	WILDLIFE BIOLOGIST	GS-12/1	15	8L2B5N02
7. YONG, MARIAN Y.	MATHEMATICIAN	GS-11/10	25	8L2B5N02
TEMPORARIES:				
1. TBN	FISHERY BIOLOGIST	GS-12/1	75	8L2B5N02
2. TOKUNAGA, REESE A.	COMPUTER PROGRAMMER	GS-5/1	100	8L2B5N02
3. BIGELOW, KEITH A.	FISHERY BIOLOGIST	GS-7/1	100	8L2B5N02
4. HAWN, DONALD R.	BIOLOGICAL TECHNICIAN	GS-5/1	100	8L2B5N02
5. GARCIA, JANE E.	CLERK	GS-3/1	50	8L2B5N02
6. BROWN, C.	BIOLOGICAL TECHNICIAN	GS-5/1	50	8L2B5N01
7. TBN	BIO. TECH./OBSERVER	GS-5/1	100	8L2B5N01
8. TBN	BIO. TECH./OBSERVER	GS-5/1	75	8L2B5N01

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L2B5N01	A	1	ANALYZE 1990 DRIFTNET/TROLL INTERACTIONS DATA AND REPORT RESULTS.	X	X						
	A	2	UPDATE ALBACORE COHORT ANALYSIS WITH REVISED DATA BASE, INCLUDING BEST ESTIMATES OF DRIFTNET CATCH AND BY-CATCH LEVELS.		X	X			X		
	A	3	ESTIMATE ALBACORE DROPOUT RATES FROM DRIFTNETS IN SHORESIDE TANKS AND AT-SEA EXPERIMENTS.	X	-	-	X				
	E	4	PUBLISH PAPER ON SELECTIVITY OF LARGE-MESH DRIFTNETS FOR ALBACORE.				X				
	A	5	COMPILE AND ANALYZE DATA TO ESTIMATE SELECTIVITY OF SMALL-MESH (SQUID) DRIFTNETS FOR ALBACORE.		X	-	-	X			
	A	6	REPEAT DRIFTNET/TROLL FISHERY INTERACTIONS STUDY.			X	X				
8L2B5N02	M	1	ESTIMATE BY-CATCH OF TURTLES AND NON-SALMONID FISHES IN JAPAN'S 1989 SQUID DRIFTNET FISHERY AND ISSUE REPORT.	X							
	A	2	DEVELOP GUIDELINES FOR BIOLOGICAL SAMPLING IN 1991 COOPERATIVE DRIFTNET OBSERVER PROGRAMS; ASSIST WITH TRAINING & FIELD MANUAL.		X						
	A	3	DEVELOP COMPREHENSIVE DATABASE/ANALYSIS CAPABILITIES FOR 1990 AND 1991 OBSERVER PROGRAM DATA.	X	-	-	X				
	A	4	CONDUCT KEWALO EXPERIMENTS ON ESCAPEMENT RATES AND EFFECTS OF GILLNET ENTANGLEMENT ON FISH CONDITION (ALSO SEE SWR-724)			X	X				
	A	5	DEVELOP COMPREHENSIVE PAPERS ON BIOLOGY AND ECOLOGY OF BLUE SHARKS, POMFRET, AND OTHER "SECONDARY" SPECIES TO SUPPORT DRIFTNET IMPACT ASSESSMENT.	X	-	X					

CURRENT YEAR OPERATING PLAN

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STRATEGIC PLAN

GOAL #: 3 OBJ #: 1

RESOURCE SUMMARY					
TITLE	ECOLOGICAL PHYSIOLOGY PROGRAM				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A6AL1				
DIRECT LABOR	89.4				89.4
PERS. BENEFITS	12.0				12.0
TRAVEL	1.5				1.5
TRANSPORTATION	0.0				0.0
RENT, COMM., UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	5.6				5.6
EQUIPMENT	2.0				2.0
GRANTS	0.0				0.0
TOTALS ->	110.50				110.5
FTE (FTP)	1.8				1.8
FTE (OTFTP)	0.0				0.0

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	
# FREE DAYS	

CROSS REFERENCES

721
722

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
ECOLOGICAL PHYSIOLOGY PROG.	HON. LAB.	1.8	110.5	R. BRILL	INFO. ANAL. & DISSEM.

A. Problem statement/objective: A knowledge of physiological tolerances and preferenda of marine animals and their behavioral responses to changes in environmental conditions (including pathogens) is essential for realistic modeling of resource management strategies. The Ecological Physiology Program therefore conducts physiological and behavioral research on fishes, cephalopods, turtles, and other marine animals to better understand their movements, distribution, survival, and vulnerability to capture in fishing gear.

B. Methodology/approach: The task interacts closely with other programs at the Honolulu Laboratory to identify critical needs for physiological and behavioral information and carries out appropriate experiments in shoreside facilities or at sea. The information developed is intended to provide other investigators, resource managers, and those responsible for endangered species protection with the knowledge essential for the development of realistic models and effective resource and endangered species management plans.

C. Products/services: The principle products of the task are publications in the scientific literature. They are disseminated widely to promote full utilization of results.

D. Clients: Clients include, but are not limited to, other scientists within and outside the Honolulu Laboratory, resource managers, and those involved in development of endangered species recovery plans.

E. Contracts: None.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. BRILL, RICHARD W.	FISHERY BIOLOGIST	GM-13	80	8L1A6AL1
2. CHANG, RANDOLPH K.C.	FISHERY BIOLOGIST	GS-11/8	100	8L1A6AL1

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A6AL1	E	1	COMPLETE DOUBLE TELEMETRY (SWIMMING DEPTH AND TEMPERATURE EXPERIMENTS ON YELLOWFIN AND BIGEYE TUNAS; PUBLISH RESULTS				J	O			
	A	2	SUPERVISE FURTHER EXPERIMENTS TO DETERMINE CAUSES OF BURNT TUNA AND DEVELOP MITIGATION STRATEGIES; PUBLISH EXISTING RESULTS		J						
	E	3	PUBLISH PAPERS ON COMPLETED STUDIES OF TUNAS' TOLERANCE TO LOW AMBIENT OXYGEN		J						
	A	4	BEGIN EXPERIMENTS TO STUDY EFFECT OF REDUCED AMBIENT TEMPERATURES ON TUNAS' TOLERANCE OF LOW AMBIENT OXYGEN	O							
	M	5	ORGANIZE AND CHAIR IUBS SYMPOSIUM ON BIOLOGY OF TUNAS AND BILLFISHES; EDIT AND PUBLISH SYMPOSIUM PAPERS				J	-	-	J	
	A	6	CONDUCT SHORESIDE EXPERIMENTS TO ASSESS EFFECTS OF GILL NET ENCOUNTERS ON SURVIVAL, PHYSIOLOGY, AND CONDITION OF TUNAS			A	-	J			
	A	7	ANALYZE ALBACORE TISSUE SAMPLES COLLECTED BY TROLL OBSERVERS TO DETERMINE EFFECTS OF GILL NET INJURIES ON PHYSIOLOGY/CONDITION	O	M						
	A	8	CONDUCT PRELIMINARY HEMATOLOGICAL STUDIES TO ASSESS EFFECTS OF FIBROPAPILLOMA TUMORS ON HAWAIIAN GREEN TURTLES	O							
	A	9	IDENTIFY AND DESCRIBE NEEDED STUDIES IN ECOLOGICAL PHYSIOLOGY AT THE HONOLULU LABORATORY AND DEVELOP PLANS TO IMPLEMENT THEM		J	J					

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	730	1 OF 4

RESOURCE SUMMARY

TITLE: INSULAR STOCK ASSESSMENT

TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C5AH1				
DIRECT LABOR	201.8				201.8
PERS. BENEFITS	26.8				26.8
TRAVEL	5.0				5.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	1.5				1.5
CONTRACTS	2.0				2.0
SUPPLIES/MATERIAL	8.7				8.7
EQUIPMENT	3.0				3.0
GRANTS	0.0				0.0
TOTALS ->	248.8				248.8
FTE (FTP)	4.0				4.0
FTE (OTFTP)	1.9				1.9

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL #: 1, 2 OBJ #: 1, 1,2

VESSELS # SEA DAYS ALLOC.	
13	
NOAA	CHARTERS
13	--
# FREE DAYS	

CROSS REFERENCES

731

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
INSULAR STOCK ASSESSMENT	HON. LAB.	5.9	248.8	D. SOMERTON	INFO. ANAL. & DISSEM.

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK ADDRESSES THE PROBLEM OF ASSESSING EXPLOITED INSULAR RESOURCES TO DETERMINE THEIR DEVELOPMENTAL POTENTIAL OR THE EXTENT TO WHICH THEY ARE OVERFISHED. THE ANALYSES CONDUCTED AND THE INFORMATION PRODUCED CONCERN TROPICAL SLOPE, NEARSHORE AND SEAMOUNT ECOSYSTEMS WITH EMPHASIS ON BOTTOMFISHES AND SEAMOUNT GROUNDFISHES. RESEARCH RESULTS PROVIDE DECISION MAKERS WITH THE INFORMATION NECESSARY TO MANAGE THESE FISHERIES.

B. METHODOLOGY/APPROACH: DATA ARE COLLECTED BY REGULATORY AGENCIES AND ANALYZED BY QUANTITATIVE FISHERIES MODELS TO DETECT UNDERLYING PATTERNS IN GROWTH, MORTALITY AND COMMUNITY PRODUCTION. RESEARCH DATA ARE ALSO COLLECTED DURING SCIENTIFIC CRUISES TO DETERMINE SPATIAL AND TEMPORAL PATTERNS IN RESOURCES ABUNDANCE, TO DEVELOP ESTIMATES OF BIOMASS, AND TO ACQUIRE BIOLOGICAL SAMPLES FOR LABORATORY ANALYSIS.

C. PRODUCT/SERVICES: ANNUAL REPORTS CONCERNING THE STATUS OF THE BOTTOMFISH AND SEAMOUNT GROUNDFISH STOCKS ARE PRODUCED FOR USE BY THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL. INNOVATIVE METHODOLOGIES AND NOTEWORTHY FINDINGS ARE PUBLISHED IN THE SCIENTIFIC LITERATURE.

D. THE PRIMARY CLIENTS WILL BE THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, ITS SCIENTIFIC AND STATISTICAL COMMITTEE, AND THE INDUSTRY ADVISORY PANEL. ISLAND GOVERNMENTS THROUGHOUT THE PACIFIC REGION ALSO BENEFIT SUBSTANTIALLY FROM THE RESEARCH CONDUCTED IN THIS TASK.

E. CONTRACTS: CONTRACT FOR COLD STORAGE FOR BAIT AND SCIENTIFIC SPECIMENS.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. SOMERTON, DAVID A.	FISHERY BIOLOGIST RESEARCH	GM-13	100	8L1C5AH1
2. SHIOTA, PAUL M.	FISHERY BIOLOGIST	GS-11/7	100	8L1C5AH1
3. EVERSON, ALAN R.	FISHERY BIOLOGIST	GS-7/6	100	8L1C5AH1
4. KIKKAWA, BERT S.	FISHERY BIOLOGIST	GS-7/7	100	8L1C5AH1
PTP:				
1. WILLIAMS, HAPPY A.	BIOLOGICAL AID	GS-4/4	96	8L1C5AH1
2. KOBAYASHI, DONALD R.	FISHERY BIOLOGIST	GS-7/1	100	8L1C5AH1

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C5AH1	A	1	ANALYZE OTOLITHS OF EXPLOITED BOTTOM FISHES	O	-	-	-	-	S		
	A	2	ANALYZE AUCTION LOT STATISTICS FOR BOTTOM FISH ASSESSMENT		F	M		F	M	F	M
	M	3	ISSUE ANNUAL BOTTOM FISH/SEAMOUNT STATUS OF STOCK REPORT			J			J		J
	E	4	COMPLETE MANUSCRIPT ON ARMORHEAD POPULATION DYNAMICS	D							
	E	5	COMPLETE MANUSCRIPT ON STOCK ASSESSMENT WITH HOOK TIMERS	D							
	E	6	COMPLETE MANUSCRIPT ON NEHU STOCK ASSESSMENT USING EGG PRODUCTION METHOD		J						
	E	7	COMPLETE MANUSCRIPT ON REPRODUCTIVE SEASONALITY OF NEHU		F						
	A	8	CONDUCT ARMORHEAD ASSESSMENT CRUISE				J				

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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STRATEGIC PLAN

GOAL #: 3 OBJ #: 1

RESOURCE SUMMARY

TITLE	INSULAR ECOLOGY STUDY				
TASK NAMES ->	8L1A6AE0				\/
OBJECT CLASS	TASK #1 8L1A6AE0	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	101.9				101.9
PERS. BENEFITS	13.2				13.2
TRAVEL	1.0				1.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	7.9				7.9
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS ->	124.0				124.0
FTE (FTP)	2.0				2.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
18	
NOAA	CHARTERS
18	--
# FREE DAYS	

CROSS REFERENCES

730

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
INSULAR ECOLOGY STUDY	HON. LAB.	3.0	124.0	J. POLOVINA	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK CONDUCTS RESEARCH ON ECOLOGICAL ASPECTS OF INSULAR MARINE RESOURCES. THE WORK INCLUDES STUDIES ON GROWTH, FECUNDITY, AND HABITAT DESCRIPTION AND USAGE OF COMMERCIALLY VALUABLE SPECIES.

B. METHODOLOGY/APPROACH: FIELD SAMPLING PROVIDES SPECIMENS FOR GROWTH AND FECUNDITY STUDIES WHICH ARE FURTHER ANALYZED IN THE LABORATORY. TRAWL SURVEYS AND HOOK AND LINE FISHING ESTIMATES THE SPATIAL AND TEMPORAL DISTIBUTION OF JUVENILE SNAPPERS.

C. PRODUCTS/SERVICES: GROWTH EQUATIONS FOR SNAPPERS WILL BE PRODUCED AND USED IN ANALYSIS FOR THE BOTTOMFISH FMP. FECUNDITY AS A FUNCTION OF SIZE FOR LOBSTER WILL BE ESTIMATED AND USED IN SPAWNING BIOMASS ESTIMATES IN THE LOBSTER FMP.

D. CLIENTS: WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL.

E. CONTRACTS: NONE

PERSONNEL SCHEDULE

SWR	731	3 OF 4

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. HUMPHREYS, ROBERT JR.	FISHERY BIOLOGIST	GS-9/3	100	8L1A6AE0
2. DEMARTINI, EDWARD E.	FISHERY BIOLOGIST	GS-12/1	100	8L1A6AE0
TEMPORARIES:				
1. CRAMER, DAVID W.	BIOLOGICAL AID	GS-5/1	100	8L1A6AE0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A6AE0	E	1	WRITE MANUSCRIPT ON USE OF PARASITES IN ARMORHEAD.	X							
	A	2	EVALUATE GROWTH OF JUVENILE OPAKAPAKA FROM OTOLITHS.		X						
	A	3	CONDUCT JUVENILE SNAPPER SAMPLING IN MHI.	X							
	A	4	WRITE MANUSCRIPT ON MANAGEMENT POTENTIAL OF FISHERY RESERVES.		X						
	E	5	WRITE MANUSCRIPT ON REEF FISH PRODUCTION IN S. CALIFORNIA.								

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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STRATEGIC PLAN

GOAL #: 3 OBJ #: 1,2

VESSELS # SEA DAYS ALLOC.	
73	
NOAA	CHARTERS
73	--
# FREE DAYS	

CROSS REFERENCES

RESOURCE SUMMARY					
TITLE	Fishery Enhancement and Dynamics				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1A4BRS	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	222.8				222.8
PERS. BENEFITS	27.2				27.2
TRAVEL	2.0				2.0
TRANSPORTATION	0.0				0.0
RENT, COMM., UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	14.0				14.0
SUPPLIES/MATERIAL	22.8				22.8
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS ->	288.8				288.8
FTE (FTP)	4.0				4.0
FTE (OTFTP)	1.5				1.5

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

SWR	732	2 OF 4

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
FISH. ENHANCE. & DYNAMICS	HON. LAB.	5.5	288.8	J. POLOVINA	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK INVESTIGATES POPULATION DYNAMICS AND RESOURCE ASSESSMENT FOR FISHERY RESOURCES AROUND TROPICAL ISLAND ECOSYSTEMS. FIELD SAMPLING AND QUANTITATIVE METHODS ARE USED TO DEVELOP MANAGEMENT ADVICE FOR HAWAIIAN FISHERIES.

B. METHODOLOGY/APPROACH: FIELD SAMPLING AND QUANTITATIVE MODELS ARE USED TO EXPLAIN AND FORECAST CHANGES WITHIN AND BETWEEN ISLAND ECOSYSTEMS. RESEARCH SAMPLING FOR LOBSTER LARVAE AND JUVENILE SNAPPERS WILL DOCUMENT THE TEMPORAL AND SPATIAL SCALE OF RECRUITMENT PROCESSES FOR THESE RESOURCES. QUANTITATIVE MODELS ARE USED FOR ASSESSMENT AND FORECASTING IN THE LOBSTER FISHERY.

C. PRODUCT/SERVICES: AN ANNUAL STATUS OF LOBSTER STOCKS REPORT IS PRODUCED FOR THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL. CURRENT ECOLOGICAL AND METHODOLOGICAL RESULTS ARE PUBLISHED IN SCIENTIFIC JOURNALS.

D. CLIENTS: WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL AND ISLAND GOVERNMENTS

E. CONTRACTS: SUPPORT TO UNIV. OF HAWAII RESEARCH FOR FIELD WORK AND COMPUTER MODELLING IN COLLABORATION WITH NMFS WORK TO DESCRIBE THE SPATIAL AND TEMPORAL DISTRIBUTION OF LOBSTER LARVAE.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. POLOVINA, JEFFREY J.	SUPERVISORY MATH. STATISTN	GM-14	100	8L1A4BRS
2. KAZAMA, THOMAS K.	FISHERY BIOLOGIST RES.	GS-11/8	100	8L1A4BRS
3. MOFFITT, ROBERT B.	FISHERY BIOLOGIST RES.	GS-9/5	100	8L1A4BRS
4. PARRISH, FRANK A.	BIOLOGICAL TECH.	GS-5/1	100	8L1A4BRS
TEMPORARIES:				
1. SPENCER, GREGORY C.	BIOLOGICAL TECH.	GS-5/1	100	8L1A4BRS
2. BENCO, RONALD A.	COMPUTER PROGRAMMER	GS-7/1	50	8L1A4BRS

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A4BRS	M	1	DETERMINE STATUS OF LOBSTER STOCKS 1990.		J						
	A	2	CONDUCT LARVAL LOBSTER SAMPLING + SUMMER ADULT SAMPLING.	X	X						
	E	3	WRITE MANUSCRIPT ON JUVENILE SNAPPER WORK.		X						
	E	4	WRITE MANUSCRIPT ON LOBSTER LARVAE ID.		X						
	E	5	WRITE CHAPTER ON ARTIFICIAL HABITATS IN FISHERY MANAGEMENT.	X							
	E	6	WRITE MANUSCRIPT ON RESULTS FROM GHOST FISHING EXPERIMENT.	X							
	E	7	WRITE MANUSCRIPT ON LOBSTER HABITAT SURVEYS.		X						

CURRENT YEAR OPERATING PLAN
FY 1991

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STRAGEGIC PLAN
GOAL #: 8 OBJ #: 3

TITLE ->	Hawaii Stock Management Program			
TASK NUMBERS ->	OI Grant				

OBJECT CLASS	TASK #1 8L1A1A01	TASK #2	TASK #3	TASK #4	TOTAL
DIRECT LABOR	0				0
PERS. BENEFITS	0				0
TRAVEL	0				0
TRANSPORTATION	0				0
RENT,COMM.,UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	400.0				400.0
SUPPLIES/MATERIAL	0				0
EQUIPMENT	0				0
GRANTS	0				0
TOTALS	400.0				400.0
FTE (FTP)	0				0
FTE (OTFTP)	0				0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Hawaii Stock Mgmt Program	La Jolla, CA	0	400.0	Barrett, I.	Resource Survey

A. PROBLEM STATEMENT/OBJECTIVE: Recent evidence has documented declines in Hawaii's nearshore fisheries resources; in response, research initiatives have been developed to determine the causes of this decline and to take remedial action. Issues of concern include habitat degradation or change, pollution, and changes in marine resource availability. The Hawaii Stock Management Program is being developed to address problems confronting the coastal marine environment. Objectives will be aimed at strengthening the understanding of nearshore fishery resources and developing strategies to reverse apparent stock declines through improved management of the stock and habitat.

B. METHODOLOGY/APPROACH: Innovative research on nearshore fishery resources of importance to recreational and commercial fishermen in Hawaii will be solicited through announcement of availability of funds in the Federal Register and CBD. Research topics of interest for this program include, but are not limited to population dynamics of nearshore resources, stock assessment, conservation and management of resources, enhancement of important stocks, habitat quality and changes in habitat availability, ecological studies of carrying capacity, analysis of larval and juvenile habitat requirements, resource user conflicts and economic research, and improvements to fisheries data collection and management.

C. PRODUCT/SERVICES: With new scientific findings from this research, NMFS will be able to assist the State of Hawaii and its local government to develop strategies to reverse apparent stock declines through improved management of the stock and habitat.

D. CLIENTS: State and local government, recreational and commercial fishery industries in Hawaii and the U.S.

E. CONTRACTS: Contract, grants and cooperative agreements will be used to fund research projects.

CURRENT YEAR OPERATING PLAN
FY 1991

FMC	REF. NO.	PAGE
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STRAGEGIC PLAN
GOAL #: 8 OBJ #: 4

TITLE ->	Mahi Mahi Aquaculture				
TASK NUMBERS ->	OI Grant				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L3B1A00				
DIRECT LABOR	0				0
PERS. BENEFITS	0				0
TRAVEL	0				0
TRANSPORTATION	0				0
RENT,COMM.,UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	0				0
SUPPLIES/MATERIAL	0				0
EQUIPMENT	0				0
GRANTS	188.0				188.0
TOTALS	188.0				188.0
FTE (FTP)	0				0
FTE (OTFTP)	0				0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Mahi Mahi Aquaculture	La Jolla	0	188.0	Barrett, I.	Fisheries Develop. Prog.

A. PROBLEM STATEMENT/OBJECTIVE:

B. METHODOLOGY/APPROACH:

C. PRODUCT/SERVICES: Co-op Agreement with the Oceanic Institute to develop data processes, and techniques for the rearing of Mahi Mahi.

D. CLIENTS: State of Hawaii

E. CONTRACTS: Co-op Agreement

CURRENT YEAR OPERATING PLAN

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STRATEGIC PLAN

GOAL #: 1, 2   OBJ #: 1, 1,2,3

RESOURCE SUMMARY					
TITLE ->	FISHERY MGMT. RES. PROGRAM				
TASK NAMES ->	Fish/Man.	Kewalo			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C2APO	8L1C2AP1			
DIRECT LABOR	221.2	8.0			229.2
PERS. BENEFITS	29.5	1.1			30.6
TRAVEL	3.8	0.0			3.8
TRANSPORTATION	0.0	0.0			0.0
RENT,COMM.,UTIL.	0.1	55.5			55.6
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	3.3	2.0			5.3
SUPPLIES/MATERIAL	2.0	0.4			2.4
EQUIPMENT	2.6	1.0			3.6
GRANTS	0.0	0.0			0.0
TOTALS ->	262.5	68.0			330.5
FTE (FTP)	6.0	0.0			6.0
FTE (OTFTP)	1.3	0.5			1.8

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
FISHERY MGMT. RES. PROGRAM	HON. LAB.	7.8	330.5	S. POOLEY	INFO. ANA. & DISSEM.

A. PROBLEM STATEMENT/OBJECTIVE: FMRP IS THE FOCAL POINT FOR PROVIDING SCIENTIFIC INFORMATION TO THE WESTERN PACIFIC FISHERY MANAGEMENT COUNCIL (COUNCIL). OBJECTIVES: TO PROVIDE FISHERIES DATA FOR BIOLOGICAL AND ECONOMIC RESEARCH ON CENTRAL AND WESTERN PACIFIC FISHERIES. TO CONDUCT OPERATIONAL AND ECONOMIC RESEARCH ON MONITORED FISHERIES.

B. METHODOLOGY/APPROACH: FOCAL POINT INVOLVES PARTICIPATION IN EACH COUNCIL "PLAN MONITORING TEAM" AND PREPARATION OF QUARTERLY REPORTS ON MONITORED FISHERIES. DATA COLLECTION INVOLVES COLLECTION, COMPILATION, AND SUMMARY REPORTING OF FISHERY AND MARKET DATA FOR MFCMA FISHERIES. DATA INCLUDE LOGBOOK PROGRAMS, SHORESIDE SAMPLING, ON-BOARD OBSERVER COVERAGE, AND SPECIAL SURVEYS. FISHERIES OPERATIONS RESEARCH INVOLVES ANALYSIS OF VESSEL PARTICIPATION PATTERNS. FISHERIES ECONOMIC RESEARCH INVOLVES COST-EARNINGS STUDIES OF VESSELS, ANALYSIS OF SEAFOOD MARKET CHANNELS, RECREATIONAL VALUATION STUDIES, AND REGULATORY IMPACT ANALYSIS.

C. PRODUCT/SERVICES: ANNUAL AND QUARTERLY REPORTS ON STATUS OF MAJOR FISHERIES (BOTTOMFISH, CRUSTACEANS, PELAGICS, AND TUNAS). ADMINISTRATIVE REPORTS ON OPERATIONAL RESEARCH. ADMINISTRATIVE REPORTS AND PUBLISHED PAPERS ON ECONOMIC RESEARCH. CONSOLIDATED FISHERY RESEARCH DATA SETS.

D. CLIENTS. PRIMARY: WESTERN PACIFIC FISHERY MANAGEMENT COUNCIL. HONOLULU LABORATORY INSULAR AND PELAGIC RESEARCH INVESTIGATIONS. SECONDARY: STATE AND TERRITORIAL FISHERIES AGENCIES; UNIVERSITY OF HAWAII RESEARCHERS; OTHER FEDERAL FACILITIES; PRIVATE INDUSTRY AND THE PUBLIC.

E. CONTRACTS: EQUIPMENT REPAIR AND MAINTENANCE. UNIVERSITY OF HAWAII COLLABORATIVE STUDENT RESEARCH PROGRAM (SEA GRANT).

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. POOLEY, SAMUEL G.	INDUSTRY ECONOMIST	GM-13	100	8L1C2AP0
2. SUMIDA, RAY F.	FISHERY BIOLOGIST	GS-11/8	100	8L1C2AP0
3. LANDGRAF, KEVIN C.	FISHERY BIOLOGIST	GS-6/1	100	8L1C2AP0
4. KAWAMOTO, KURT E.	BIOLOGICAL TECH.	GS-6/2	100	8L1C2AP0
5. ITO, RUSSEL Y.	BIOLOGICAL TECH.	GS-6/1	100	8L1C2AP0
6. CABACUNGAN, FRANK L.	PROGRAMMER	GS-5/1	100	8L1C2AP0
TEMPORARIES:				
1. KAWAHARA, DAVID T.	COMPUTER CLERK	GS-4/1	29.2	8L1C2AP0
2. YOSHIMOTO, STACEY	OP. RES. ANALYST	GS-5/1	100	8L1C2AP0
3. CAMBRA, GLENN P.	BIOLOGICAL AID	GS-3/1	50	8L1C2AP1

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91 1	FY 91 2	FY 91 3	FY 91 4	92 1	92 2	93 1	93 2
8L1C2AP0	A	1	COLLECT AND COMPILE BIOLOGICAL, OPERATIONAL, AND ECONOMIC DATA FROM COMMERCIAL & RECREATIONAL FISHERIES.	O	-	-	-	-	-	-	S
	M	2	ISSUE ANNUAL FISHERY REPORTS AND MODULES (CRUSTACEAN FMP, BOTTOM-FISH FMP, PELAGICS FMP, AND WESTERN PACIFIC TUNA.)			A	J	A	J	A	J
	E	3	INTEGRATE HAWAII FISHERIES MONITORING DATABASES				S				
	A	4	CONDUCT ECONOMIC RESEARCH.	O	-	-	-	-	-	-	S
	A	5	PARTICIPATE IN COUNCIL ACTIVITIES AND PROVIDE PRINCIPAL LABORATORY LIAISON.	O	-	-	-	-	-	-	S
	A	6	IMPLEMENT WESTERN PACIFIC, HAWAII-PORTION, LONGLINE MONITORING PROGRAM.	O	-	-	-	-	-	-	S
8L1C2AP1	A	7	COORDINATE DOCKSIDE SUPPORT OPERATIONS FOR HONOLULU LABORATORY	O	-	-	-	-	-	-	S

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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RESOURCE SUMMARY

TITLE ->	WPACFIN				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C1AUW				
DIRECT LABOR	84.5				84.5
PERS. BENEFITS	11.4				11.4
TRAVEL	4.0				4.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	1.5				1.5
PRINT/REPROD.	1.0				1.0
CONTRACTS	0.5				0.5
SUPPLIES/MATERIAL	1.3				1.3
EQUIPMENT	0.6				0.6
GRANTS	0.0				0.0
TOTALS ->	104.8				104.8
FTE (FTP)	2.0				2.0
FTE (OTFTP)	0.0				0.0

APPROVAL SIGNATURE

HQ CONTACT

STRATEGIC PLAN

GOAL #: ALL OBJ #:

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
WPACFIN	HON. LAB.	2.0	104.5	D. HAMM	INFO ANAL. & DISSEM.

A. Problem statement/objective: The Western Pacific Fishery Information Network (WPACFIN) was developed to supply timely and accurate fisheries data for planning and management purposes. The WPACFIN is the central source of information on most fisheries in American Samoa, the Commonwealth of the Northern Mariana Islands (CNMI), Guam, and Hawaii. The program also supports other Pacific islands' (e.g., Compact States) fisheries data needs as time and resources permit.

B. Methodology/approach: Through providing technical assistance to Pacific island fisheries agencies, WPACFIN's cooperative program establishes and maintains a regional information network to help meet the data requirements of the Magnuson Fishery Conservation and Management Act. The WPACFIN also facilitates administration of funds available to island fisheries agencies through the PACFIN system data initiative to improve local data collecting and processing systems and filling information gaps. Fishery data are collected primarily by local government agencies and then accumulated, compiled, and maintained in a regional database system at the Honolulu Laboratory. Microcomputer systems are used in each office to capture and computerize the data before automated copies of the databases are sent to the central WPACFIN system. Information is then made available to qualified users for numerous reporting and analytical purposes.

C. Product/services: The WPACFIN coordinates compilation of summary statistics from all participating agencies and distributes them in the Southwest Fisheries Science Center Administrative Report series *Fishery Statistics of the Western Pacific*. Other products include ad hoc reports, responses to data requests, submission of summary reports to various fishery management plan monitoring teams, and assistance in submission of island modules for the annual plan monitoring team reports on bottomfish and pelagic species.

D. Clients: Users include the Western Pacific Regional Fishery Management Council and its staff, Scientific and Statistical Committee, advisory groups, and fishery management plan monitoring teams; NMFS employees; Pacific island fisheries agencies; university researchers; contractors; the fishing industry; and international organizations such as the South Pacific Commission and FAO.

E. Contracts: Less than $1K for local computer repair.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. HAMM, DAVID C.	COMPUTER SYSTEMS ANALYST	GS-12/8	100	8L1C1AUW
2. QUACH, MICHAEL M.C.	COMPUTER PROGRAMMER	GS-9/1	100	8L1C1AUW

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C1AUW	A	1	PARTICIPATE IN AND COORDIANTE ACTIVITIES OF FDCC	O	-	-	-	-	-	-	S
	A	2	PARTICIPATE IN COUNCIL PLAN MONITORING TEAM MEETINGS	O	-	-	-	-	-	-	S
	A	3	LIAISON WITH INDUSTRY AND OTHER PACIFIC ISLAND FISHERIES AGENCIES	O	-	-	-	-	-	-	S
	A	4	SUPPORT ACCESS TO CENTRAL WPACFIN DATA BASES	O	-	-	-	-	-	-	S
	A	5	COLLECT, CENTRALIZE, AND MAINTAIN FISHERIES DATA FROM GUAM, AMERICAN SAMOA, AND THE NORTHERN MARIANA ISLANDS	O	-	-	-	-	-	-	S
	A	6	FULFILL DATA REQUESTS AND PRODUCE SUMMARY REPORTS NEEDED FOR PLANNING AND MANAGEMENT	O	-	-	-	-	-	-	S
	M	7	PRODUCE VOLUME OF "FISHERY STATISTICS OF THE WESTERN PACIFIC"			A					
	A	8	COORDINATE CONVERSION AND PROCESSING EFFORTS IF MADE POSSIBLE WITH ALTERNATE FUNDS	O	-	-	-	-	-	-	S
	A	9	COORDINATE CONTRACTING FOR ISLAND DATA PROJECTS IF OTHER FUNDS BECOME AVAILABLE	O	-	-	-	-	-	-	S
	E	10	COMPLETE MANUSCRIPT DESCRIBING APPLICATION OF WPACFIN APPROACH TO SMALL ISLAND FISHERIES			J					

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	750	1 OF 5

STRATEGIC PLAN

GOAL #: 4 OBJ #:

RESOURCE SUMMARY					
TITLE ->	MARINE MAMMALS & ENDANGERED SPECIES				
TASK NAMES ->	Monk Seal	Mar. Turtle			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A3VWO	8L1A3VW1			
DIRECT LABOR	269.2	58.3			327.5
PERS. BENEFITS	34.2	7.9			42.1
TRAVEL	10.0	2.0			12.0
TRANSPORTATION	0.0	0.0			0.0
RENT,COMM.,UTIL.	0.0	0.0			0.0
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	24.0	4.0			28.0
SUPPLIES/MATERIAL	62.6	2.5			65.1
EQUIPMENT	0.0	0.0			0.0
GRANTS	0.0	0.0			0.0
TOTALS ->	400.0	74.7			474.7
FTE (FTP)	2.5	.9			3.4
FTE (OTFTP)	5.5	1.0			6.5

VESSELS # SEA DAYS ALLOC.	
43	
NOAA	CHARTERS
43	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MAR. MAMMALS & ENDANGER. SP.	HON. LAB.	9.9	474.7	W. GILMARTIN	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVES: THIS TASK MONITORS THE ENDANGERED HAWAIIAN MONK SEAL AND THREATENED GREEN TURTLE POPULATIONS IN THE HAWAIIAN ARCHIPELAGO, PERFORMS RESEARCH TO IDENTIFY IMPEDIMENTS TO RECOVERY OF THESE SPECIES, AND EXPERIMENTS WITH RECOVERY ACTIONS DIRECTED AT INCREASING THE POPULATIONS. NOAA FISHERIES IS RESPONSIBLE FOR THESE SPECIES UNDER THE MARINE MAMMAL PROTECTION ACT AND ENDANGERED SPECIES ACT AND THE RESEARCH IS PRIMARILY GUIDED BY THE RESPECTIVE RECOVERY PLANS.

B. METHODOLOGY/APPROACH: THE PRINCIPAL RESEARCH IN THIS TASK IS PERFORMED BY FIELD TEAMS IN THE NORTHWESTERN HAWAIIAN ISLANDS. FLIPPER TAGS ARE APPLIED TO COLLECT DATA ON SURVIVAL, REPRODUCTION, GROWTH RATE, MOVEMENTS, AND POPULATION SIZE AND COMPOSITION. SOME MONK SEAL PUPS ARE COLLECTED FOR TEMPORARY CAPTIVE MAINTENANCE TO ENHANCE SURVIVAL. REHABILITATION OF SOME SMALL FEMALE PUPS WILL BE ATTEMPTED WITH REINTRODUCTION OF SURVIVORS. THE PRIMARY GREEN TURTLE NESTING SITE AT FRENCH FRIGATE SHOALS WILL BE MONITORED IN COOPERATION WITH THE US FISH AND WILDLIFE SERVICE. WORK IN TURTLE FORAGING HABITATS IN THE MAIN HAWAIIAN ISLANDS INCLUDES ASSESSMENT OF THE RANGE, INCIDENCE, AND PROGRESSION OF THE FIBROPAPILLOMA DISEASE CURRENTLY IMPACTING THE GREEN TURTLE IN HAWAII.

C. PRODUCT/SERVICES: POPULATION DATA, IMPEDIMENTS TO RECOVERY WHICH ARE IDENTIFIED, AND RECOVERY METHODOLOGIES ARE SUMMARIZED INTO TECHNICAL REPORTS FOR PUBLICATION. SIGNIFICANT RECOVERY CHANGES ARE APPARENT IN THE KURE ATOLL MONK SEAL POPULATION, WHERE MUCH RECOVERY EFFORT HAS BEEN DIRECTED.

D. CLIENTS: THE PRIMARY CLIENTS ARE THE NMFS, MARINE MAMMAL COMMISSION, US FISH AND WILDLIFE SERVICE, AND THE RESPECTIVE RECOVERY TEAMS. THE CLIENTS USE THE PRODUCTS TO RECOMMEND AND PLAN FUTURE RESEARCH, INITIATE MANAGEMENT ACTIONS, AND TAKE APPROPRIATE RECOVERY ACTIONS TO ENHANCE THE SPECIES SURVIVAL.

E. CONTRACTS: ANALYSIS OF DECAPEPTYL EFFECTS ($2.5K AND $5K), SEAL DNA FINGERPRINT ANALYSIS ($3K), MONK SEAL PARASITE IDENTIFICATION MANUAL ($2K).

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. GILMARTIN, WILLIAM G.	WILLDLIFE BIOLOGIST	GM-14	100	8L1A3VW0
2. HENDERSON, JOHN R.	WILDLIFE BIOLOGIST	GS-11/4	100	8L1A3VW0
3. BALAZS, GEORGE H.	WILDLIFE BIOLOGIST	GS-12/2	85	8L1A3VW1
4. VACANT (VICE GERRODETTE)	FISHERY BIOLOGIST	GS-12/1	50	8L1A3VW0
PTP:				
1. JOHANOS-KAM, THEA C.	WILDLIFE BIOLOGIST	GS-9/1	60	8L1A3VW0
TEMPORARIES:				
1. BECKER, BRENDA L.	WILDLIFE BIOLOGIST	GS-7/1	100	8L1A3VW0
2. LEE, MARGARET M..	BIOLOGICAL TECH.	GS-5/1	100	8L1A3VW0
3. SWENSON, HENRY J.	COMPUTER CLERK	GS-4/1	100	8L1A3VW0
4. CRAIG, MICHELL	BIOLOGICAL TECH.	GS-5/1	85	8L1A3VW0
5. BOMBARD, KAREN B.	BIOLOGICAL TECH.	GS-4/1	100	8L1A3VW0
6. BROMWELL, KARL B.	BIOLOGICAL TECH.	GS-5/1	100	8L1A3VW1

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A3VW1	A	1	CONDUCT MONITORING AND TAGGING OF MIGRATORY BREEDING POPULATION OF GREEN TURTLES AT FRENCH FRIGATE SHOALS.			X	X				
	M	2	SUMMARY REPORT ON WORKSHOP CONVENED TO DEVELOP A RESEARCH PLAN FOR TUMOR PROBLEM.	X	X						
	A	3	INVESTIGATE DISTRIBUTION AND ABUNDANCE OF GREEN TURTLES AND HAWKSBILLS IN HAWAII.	X	-	-	X				
	M	4	DEVELOP ESTIMATE OF NUMBER OF NESTING FEMALES AT FRENCH FRIGATE SHOALS.				X				
	E	5	COLLECT AND ANALYZE DATA ON TUMOR INCIDENCE IN GREEN TURTLES AT RESIDENT FORAGING PASTURES. PREPARE MANUSCRIPT.	X							
	A	6	IMPLEMENT INTERAGENCY (USFWS, NPS, SOH) RESEARCH AS OUTLINED IN THE HAWAIIAN HAWKSBILL AND GREEN TURTLE RECOVERY PLANS.	X	-	-	-	-	X		
	A	7	CONDUCT MONITORING AND TAGGING OF GREEN TURTLES IN MARINE HABITATS OF THE MAIN HAWAIIAN ISLANDS.	X	-	-	-	-	X		
	E	8	COMPLETE MANUSCRIPT ON TURTLE FECES DISTRIBUTION AND OCCURENCE ON SELECTED OAHU BEACHES.			X					

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A3VW0	A	9	COLLECT AND MAINTAIN KURE WEANED FEMALE PUPS IN HEAD START PROJECT		J	-	S				
	A	10	COLLECT UNDERSIZED FEMALE PUPS AT FRENCH FRIGATE SHOALS FOR REHABILITATION			A	-	-	J		
	E	11	RELEASE 1989 REHABILITATED PUPS AT KURE ATOLL OR MIDWAY ISLANDS		J						
	A	12	TAG ADULT FEMALE AND MALE SEALS AT LAYSAN ISLAND	O							
	A	13	CONDUCT EFFECTS OF TAGGING STUDY AT LAYSAN ISLAND			A	J				
	E	14	CONTRIBUTE AND PARTICIPATE IN HAWAIIAN MONK SEAL RECOVERY TEAM MEETING	O							
	A	15	CONDUCT FULL POPULATION MONITORING AT ALL 5 MAJOR BREEDING POPULATIONS		J	-	J				
	M	16	SUBMIT POPLUATION STATUS OF MONK SEALS MANUSCRIPT TO JOURNAL		J						
	M	17	SUBMIT INMATURE MONK SEAL SURVIVAL MANUSCRIPT TO JOURNAL	O							
	M	18	SUBMIT LAY-SCIENCE MANUSCRIPT HIGHLIGHTING MOBBING PROBLEM TO JOURNAL	O							

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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RESOURCE SUMMARY

TITLE ->	Tiburon Laboratory Administration				
TASK NAMES ->	General	Library	Facilities		\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	9WGN40T2	9WGN40T3	9WGN40T4		
DIRECT LABOR	134.3	30.5	32.6		197.4
PERS. BENEFITS	22.2	5.0	5.4		32.6
TRAVEL	2.5				2.5
TRANSPORTATION	.4				.4
RENT,COMM.,UTIL.	12.0		23.0		35.0
PRINT/REPROD.	.4				.4
CONTRACTS	8.5	2.5	17.0		28.0
SUPPLIES/MATERIAL	10.0	7.5	12.0		29.5
EQUIPMENT	3.0				3.0
GRANTS					
TOTALS	193.3	45.5	90.0		328.8
FTE (FTP)	5.5	1.0	1.0		7.5
FTE (OTFTP)					

STRATEGIC PLAN

GOAL #: MGT OBJ #:

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Management Fund	Tiburon, CA	5.5	328.8	A. MacCall	Management Fund

A. PROBLEM STATEMENT/OBJECTIVE: To provide overall management and administration of both human and fiscal resources for the Tiburon Laboratory.

B. METHODOLOGY/APPROACH: Provide guidance for overall operations and scientific program of Tiburon Laboratory. Maintain and improve internal controls and streamline operating procedures.

C. PRODUCT/SERVICES: Provide efficient day-to-day administration of the Tiburon Laboratory in areas of procurement, personnel and facility maintenance; flow of information/products to outside agencies and the public.

D. CLIENTS: Southwest Region, Pacific Regional Fisheries Management Council, fishing industry, general public.

E. CONTRACTS:

PERSONNEL SCHEDULE

SWR	800	3 OF 3

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. MacCall, Alec	Director	GM-15	50	9WGN40T2
2. Mavrantonis, Elaine	Secretary	GS-6/7	100	"
3. Yokota, Issei	Admin. Officer	GS-9/4	100	"
4. Spurgeon, Marie	Admin. Clerk	GS-5/4	100	"
5. Johnson, Lisa	Clk. Typist	GS-4/1	100	"
6. Petraitis, Adrienne	Clk. Typist	GS-4/1	100	"
7. (Vacant)	Librarian	GS-9	100	9WGN40T3
8. Munoz, Tony	Maintenance	WG-9/5	100	9WGN40T4

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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RESOURCE SUMMARY

TITLE -> Groundfish Analysis

TASK NAMES ->					∨
OBJECT CLASS	TASK #1 8L1C2AMO	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	308.8				308.8
PERS. BENEFITS	50.0				50.0
TRAVEL	8.8				8.8
TRANSPORTATION	1.1				1.1
RENT,COMM.,UTIL.	.4				.4
PRINT/REPROD.	.5				.5
CONTRACTS	21.3				21.3
SUPPLIES/MATERIAL	7.7				7.7
EQUIPMENT	4.0				4.0
GRANTS					
TOTALS	402.6				402.6
FTE (FTP)	9.25				9.25
FTE (OTFTP)					

STRATEGIC PLAN

GOAL #: 2 OBJ #: 1,2

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
	4
# FREE DAYS	

CROSS REFERENCES

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APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Groundfish Analysis	Tiburon, CA	9.35	402.6	W. Lenarz	Info.Anal.&Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: This Task provides information needed to implement the groundfish plan of the Pacific Fishery Management Council. The requirements are defined by the Groundfish Team and S&S Committee of the Council and through consultation with members of the scientific and fishing industry communities. Results of the work are provided to the Council to aid it in plan implementation decisions.

B. METHODOLOGY/APPROACH: Fishery dependent data are collected by a cooperative port sampling program with the state of California. Adults of these species are aged as part of a coastwide cooperative program. Fishery independent data are collected on the recruitment of rockfish using a NOAA vessel, and on spawning biomass of rockfish using NOAA and chartered vessels. Stock assessments and other analytical studies are done using the above data, and the PacFIN database and fishery independent data collected by the NWFSC and AFSC. Simulation modeling is often used to evaluate management strategies. Staff members are on the Groundfish Management Team and S&S Committee and work closely with the staff of the NWFSC and AFSC and other agencies.

C. PRODUCT/SERVICES: Stock assessments are incorporated in the Council's Annual Stock Status document. (Technical evaluation of potential impacts of proposed regulations are incorporated in Groundfish Team documents.) In addition the staff regularly publishes in peer-reviewed journals and administrative reports and presents talks at scientific meetings.

D. CLIENTS: The main clients are the Pacific Fishery Management Council and its entities. Several members of the staff often respond to requests for information by the fishing industry and other scientists.

E. CONTRACTS: Most of the contract money is for charter of a commercial fishing vessel to conduct trawling operations for the pilot shortbelly rockfish larval production survey.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Lenarz, William	Supv. Fish. Bio. Res.	GM-14	100	8L1C2AMO
2. Hightower, Joseph	Supv. Fish. Bio. Res.	GM-13	100	"
3. Ralston, Stephen	Supv. Fish. Bio. Res.	GM-13	100	"
4. Bence, James	Math Statistician	GS-12/2	100	"
5. Woodbury, David	Fish. Bio.	GS-9/1	100	"
6. Reilly, Carol	Fish. Bio.	GS-9/2	100	"
7. Pearson, Donald	Fish. Bio.	GS-7/1	100	"
8. McBride, Anne	Bio. Tech.	GS-6/2	100	"
9. Sakuma, Keith (Temp.)	Bio. Tech.	GS-5/1	25	"
10. (Vacant)	Computer Specialist	GS-5	100	"

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C2AMO	M	1	Update and submit status of groundfish stocks reports for PFMC.	N				X		X	
"	M	2	Contribution to Annual Tiburon Laboratory Recruitment Stock Report.		M			X		X	
"	M	3	Juvenile rockfish survey.			M			X		X
"	E	4	Documentation of juvenile rockfish database.				A				
"	M	5	Produce research plan for shortbelly rockfish larva production survey.	D							
"	E	6	Pilot shortbelly larval production survey.		F						
"	M	7	Report on pilot larval production survey.					X			
"	E	8	Present reports at CalCOFI meeting.	O							
"	A	9	Planning for full-scale larval production survey if funded in FY92.			X	X	X			
"	E	10	Conduct full-scale larval production survey if funded in FY 92. FY 92.					X	X		

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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RESOURCE SUMMARY

TITLE -> Groundfish Communities

TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1A3APO	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	231.6				231.6
PERS. BENEFITS	36.9				36.9
TRAVEL	6.0				6.0
TRANSPORTATION	.3				.3
RENT,COMM.,UTIL.					
PRINT/REPROD.	1.0				1.0
CONTRACTS	1.8				1.8
SUPPLIES/MATERIAL	6.0				6.0
EQUIPMENT	4.0				4.0
GRANTS					
TOTALS	287.6				287.6
FTE (FTP)	6.0				6.0
FTE (OTFTP)	1.0				1.0

STRATEGIC PLAN

GOAL #: 3 OBJ #: 1

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

811
813

APPROVAL SIGNATURE

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Groundfish Communities	Tiburon, CA	7.0	287.6	E. Hobson	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: Task identifies effects of natural change in the marine environment on the distribution, abundance and relative year class strength of groundfish species. Knowledge and understanding of those effects is required before the effects of human activities on these species or their environment can be recognized.

B. METHODOLOGY/APPROACH: Effects of environmental change are measured at established sites near shore and on the continental shelf and slope. Emphasis is on interspecific relations, especially between predator and prey, and on relative success of recruitment. Regular assessments are made with a variety of sampling devices and by visual observations where feasible. Trophic relations are determined by visual observations and study of diet, with results undergoing rigorous peer review.

C. PRODUCT/SERVICES: Major products are published papers, reports and stock assessment documents presents to the Pacific Fishery Management Council.

D. CLIENTS: Clients include fishery managers, Pacific Fishery Management Council, researchers and others with need to understand, or interest in, the dynamics of marine ecosystems, particularly those of the U.S. Pacific Coast.

E. CONTRACTS: None

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Hobson, Edmund	Supv. Fish. Bio. Res.	GM-14	100	8L1A3APO
2. Chess, James	Fish. Bio. Res.	GS-12/7	100	"
3. Adams, Peter	Fish. Bio. Res.	GS-12/6	100	"
4. Howard, Daniel	Fish. Bio.	GS-9/2	100	"
5. Silberberg, Kelly	Bio. Tech.	GS-6/3	100	"
6. Laidig, Thomas	Fish. Bio.	GS-5/5	100	"
7. DeFelice, Ralph (Temp)	Bio. Tech.	GS-4/1	100	"

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1A3APO	M	1	Produce assessment of 1991 year classes for rockfish species, for laboratory recruitment report.		M						
"	A	2	Perform visual census to measure 1991 recruitment in rockfish species and first year mortality in blue rockfish.			X	X	X	X		
"	A	3	Sample king salmon diet for occurrence of juvenile Sebastes spp. as relative measure of recruitment.			X	X				
"	A	4	Study influence of feeding conditions for adult female blue rockfish on recruitment success.	X	X	X	X	X	X	X	X
"	A	5	Monitor changes in groundfish communities.	X	X	X	X	X	X	X	X
"	E	6	Present results of recruitment studies at scientific meetings (2).		J	J					
"	M	7	Produce for publication ms on natural mortality in first-year juvenile blue rockfish.		J						
"	M	8	Produce for publication ms on prey selection in California groundfish community.				S				
"	E	9	Complete analysis of lingcod fishery based on PacFIN database.		J						
"	A	10	Age-validation studies of lingcod.	X	X	X	X	X	X	X	X
			(continued)								

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A3APO	E	11	Participate in cruise to sample outer-shelf groundfish.	N							
"	A	12	Study spatial distribution and trophic relations of outer-shelf groundfish.	X	X	X	X	X	X	X	X

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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RESOURCE SUMMARY

TITLE -> Groundfish Physiological Ecology

TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A3ATO				
DIRECT LABOR	234.3				234.3
PERS. BENEFITS	38.7				38.7
TRAVEL	4.5				4.5
TRANSPORTATION	0.5				0.5
RENT,COMM.,UTIL.	0.5				0.5
PRINT/REPROD.	0.2				0.2
CONTRACTS	11.8				11.8
SUPPLIES/MATERIAL	7.9				7.9
EQUIPMENT	3.2				3.2
GRANTS					
TOTALS	301.6				301.6
FTE (FTP)	6.0				6.0
FTE (OTFTP)					

STRATEGIC PLAN

GOAL #: 3 OBJ #: 1

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
	10
# FREE DAYS	

CROSS REFERENCES

811
812

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Physiological Ecology	Tiburon, CA	6.0	301.6	J. Whipple	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: Managers need to understand how natural environmental factors and management can affect fish stocks. This Task examines functional relationships between fishes and their host environments. Research consists of multidisciplinary, integrated studies designed to determine the inherent and environmental factors most affecting health (condition) growth, behavior and reproduction in important groundfish populations. The major goal is to understand, describe and explain how fish respond to changes in habitats and the implications these interactions have for management. The specific goal is to contribute to the assessment of groundfish stocks and to forecast recruitment several years in advance.

B. METHODOLOGY/APPROACH: Research includes comprehensive examinations and analyses of adult and juvenile specimens collected from commercial and sport groundfish fleets, from chartered fishing vessels and cruises aboard the NOAA ship, David Starr Jordan. Efforts are focused on important rockfish species: yellowtail, boccaccio and widow rockfish (Sebastes flavidus, S. paucispinus, S. entomelas). Earlier emphasis was on rockfish off Cordell Bank, California. Later studies are being expanded to compare California rockfish to populations off the Northwest Coast. Scientific information from analyses and supportive laboratory experiments are used to determine the most important characteristics of condition and reproduction to form measures of health and effective growth and fecundity. Studies include examinations of reproduction, gametogenesis, development, proximate analysis of tissues, estimates of disease and parasite damage, and determination of lipid cycles and other serum nutrients. Results of the research are combined with oceanographic condition, reproductive variability and to place the species within the context of their habitats.

C. PRODUCT/SERVICES: Products of this research include written scientific reports and manuscripts, presentations at meetings, conferences, lectures and seminars. The products will contribute to the efficiency and long-term variability of the fishery. Secondary outcomes are expected to provide management an efficient means to monitor the health of different stocks, year class production and to determine factors producing poor fishery products.

D. CLIENTS: Primary user of the research products are managers of the PFMC and other elements concerned with the groundfish fishery. Other users include researchers and fishery managers who need to know how fish growth, condition, survival and reproduction is affected by environmental and management factors.

(continued)

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Physiological Ecology	Tiburon, CA	6.0	301.6	J. Whipple	Resource Information

(continued)

E. CONTRACTS: $2.2K for pathological analyses. $9.6K for vessel charters to collect rockfish samples.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Whipple, Jeannette	Supv. Fish. Bio. Res.	GM-14	100	8L1A3ATO
2. Eldridge, Maxwell	Supv. Fish. Bio. Res.	GM-13	100	"
3. MacFarlane, R. Bruce	Fish. Bio. Res.	GS-12/8	100	"
4. Bowers, Michael	Fish. Bio.	GS-7/7	100	"
5. Jarvis, Brian	Bio. Tech.	GS-9/7	100	"
6. Norton, Elizabeth	Fish. Bio.	GS-7/1	100	"

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A3ATO	A	1	Conduct monthly sampling of yellowtail rockfish from Cordell Bank, CA, until normal environmental conditions prevail.	D	M	J	S	?	?	?	?
"	A	2	Complete laboratory examinations and analyses of Cordell Bank specimens.	D	M	J	S	X	X	X	X
"	M	3	Complete and submit for publication manuscripts relating to Cordell Bank yellowtail rockfish research.			J	S				
"	A	4	Conduct field collection and laboratory analyses on fecundity and condition of specimens from CA, WA and Canada.	D	M	J	S				
"	A	5	Participate in preliminary cruise on shortbelly rockfish; analyze specimens for reproductive life history.		F	J	S				
"	A	6	Continue laboratory experiments of rockfish gestation rates and parturition.	D	F				X		X
"	E	7	Prepare report on methods for monitoring reproductive life history in Sebastes.					X			
"	A	8	Continue research on assessment of YOY condition in cooperation with other Tasks.			J	S		X		X
"	M	9	Prepare Annual Rockfish Recruitment Report in cooperation with other Tasks.			A			X		X
"	M	10	Publish manuscript, "Reproductive performance of yellowtail rockfish," in Env. Biol. of Fishes.			M					

CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

TITLE -> Fishery Management Advisories

TASK NAMES ->					
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C3AOO				
DIRECT LABOR	181.5				181.5
PERS. BENEFITS	30.0				30.0
TRAVEL	6.7				6.7
TRANSPORTATION					
RENT,COMM.,UTIL.	3.5				3.5
PRINT/REPROD.	1.0				1.0
CONTRACTS	15.2				15.2
SUPPLIES/MATERIAL	15.0				15.0
EQUIPMENT	15.0				15.0
GRANTS					
TOTALS	267.9				267.9
FTE (FTP)	3.5				3.5
FTE (OTFTP)					

STRATEGIC PLAN

GOAL #: 1, 2 OBJ #: 1, 1

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Director's Office Research	Tiburon, CA	3.5	267.9	A. MacCall	Info.Anal.&Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: This Task provides scientific expertise, analysis and information on a broad range of fishery subjects relevant to fisheries off the west coast of the U.S., especially off central and northern California where the Tiburon Laboratory is located. Subject areas include 1) groundfish and their fisheries, 2) fisheries other than groundfish, such as salmon, 3) fisheries and habitat in San Francisco Bay and the Gulf of the Farallones, especially with regard to effects of dredge spoil disposal, 4) improvement of understanding and analytic methodologies for fishery and ecosystem management.

B. METHODOLOGY/APPROACH: This Task is multidisciplinary, including quantitative fishery and ecosystem analysis, economic analysis and ADP information management. This Task draws on and integrates information from other Tasks at the Tiburon Laboratory as well as relevant knowledge, studies and data from outside agencies. Members of this Task participate extensively on advisory, committees and otherwise maintain close contact and liaison with the clients described below.

C. PRODUCT/SERVICES: Public testimony, reviews and advice to government agencies, industry and interest groups regarding fisheries and habitat. Also, the staff publishes in peer-reviewed journals and administrative reports, and presents talks at scientific meetings.

D. CLIENTS: Federal government agencies such as the Pacific Fishery Management Council (PFMC) and its entities, the Klamath River Fishery Council, Pacific Fishery Information Network (PacFIN), California Sea Grant, the Environmental Protection Agency, the U.S. Army Corps of Engineers, and the U.S. Navy. Other agencies include the California Resources Agency, State Lands Commission, and local agencies in the San Francisco area. Recreational and commercial fishing industries, conservation and other interest groups.

E. CONTRACTS: $15K is allocated to a pilot larva production survey for shortbelly rockfish, including sorting of plankton samples, determination of birthdates and estimation of daily rate of larval production.

PERSONNEL SCHEDULE

SWR	821	3 OF 4

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. MacCall, Alec	Director	GM-15	50	8L1C3A00
2. Kope, Robert	Fish. Bio. Res.	GS-12/1	100	"
3. Wiley, Nancy	Comp. Prog. Analyst	GS-11/8	100	"
4. Abramson, Norman	IPA	GM-15	100	"

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1C3A00	M	1	Produce review manuscript in ichthyoplankton methods of abundance estimation.			J					
"	E	2	Submit report of Tiburon Laboratory research to Canada-U.S. Groundfish Treaty Technical Subcommittee.			J					
"	E	3	Produce and evaluate estimates of historical Klamath River salmon recruitments.				A				
"	A	4	Participate on PFMC-SCC; review fishery management plans and other documents as required.	-	-	-	-	-	-	-	-
"	A	5	Participate on Klamath River Fishery Mgmt. Council's Technical Team; provide estimates of run sizes and analysis of salmon mgmt. options.	-	-	-	-	-	-	-	-
"	A	6	Maintain liaison with agencies, industry and interest groups.	-	-	-	-	-	-	-	-
"	A	7	Support and coordinate SWFSC groundfish research, including short-belly rockfish abundance survey.	-	-	-	-	-	-	-	-
"	A	8	Participate in EPA/ACOE Long-Term Management Strategy Program for dredged materials disposal from San Francisco Bay.	-	-	-	-	-	-	-	-

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STRAGEGIC PLAN
GOAL #: 3 OBJ #: 1,2,3

TITLE ->	Pacific Fishery Environmental Group				
TASK NAMES ->					
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTAL
	8L1C5BT0				
DIRECT LABOR	394.9				394.9
PERS. BENEFITS	65.2				65.2
TRAVEL	0.0				0.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	13.5				13.5
PRINT/REPROD.	3.0				3.0
CONTRACTS	5.5				5.5
SUPPLIES/MATERIAL	15.0				15.0
EQUIPMENT	8.4				8.4
GRANTS	0.0				0.0
TOTALS	505.5				505.5
FTE (FTP)	9.1				9.1
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fishery/Environmental Climatology Modelling and Forecasting	Monterey, CA	9.1	516.3	Bakun	Info. Analysis and Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Natural variability interacts with effects of human actions in controlling the population dynamics of fishery resource populations. The Objective is to develop effective methodologies for incorporating information on natural environmental and biological variability in fisheries scientific procedures and activities.

B. METHODOLOGY/APPROACH: An integrated approach incorporates the following: I. Development of environmental index time series (i.e., research, calibration, verification, production, distribution, update, and consultative interpretation); II. Diagnostic studies of ecological anomalies (El Nino, etc., fishery resource connotations): III. Identification of environmental-biological causal linkages (comparative studies, exploratory data analysis, empirical modelling, etc.); IV. Development of environmental dependent fishery modelling methodology; V. Development of appropriate biological time series for calibration and verification.

C. PRODUCT/SERVICES: Research papers, technical reports, specialized data products and analyses, consultative and interpretive services, standard data products and routine updates.

D. CLIENTS: NMFS fisheries research projects, various NOAA laboratories, other federal, state and university research projects, federal and state regulatory agencies.

E. CONTRACTS: The task uses U.S. Navy computer facilities at FNOC in Monterey (approx. $5K).

PERSONNEL SCHEDULE

SWR	901	3 of 5

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
BAKUN, A.	Supervisory Oceanographer	GM 1360/15/00	100	8L1C5BT0
HUSBY, D.	Oceanographer	GS 1360/12/08	100	"
MENDELSSOHN, R.	Oper. Res. Analyst	GM 1515/14/00	100	"
NORTON, J.	Oceanographer	GS 1360/12/05	100	"
PARRISH, R.	Fish Biologist Res.	GM 0482/14/00	100	"
SCHWING, F.	Oceanographer	GS 1360/12/02	100	"
TROIAN, R.	Admin. Support Assist.	GS 303/07/07	100	"
YOKLAVICH, M.	Fish Biologist Res.	GS 0482/11/01	100	"
MASON, J.	Fish Biologist Res.	GS 0482/07/02	50	"
NICHOLS, T.	Stat. Assistant	GS 1531/05/03	60	"
MCCLAIN, L.	Admin. Support Clerk	GS 303/05/01	50	"
VACANT	Computer Programmer	GS /09/01	50	"

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

FMC	REF.NO.	PAGE
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TASK#	M,A,E	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1C5BT0	A	1	Production of ocean index time series and climatologies for the California Current region.	X-	--	--	--	--	--	---	-X
	A	2	Oceanography of the neritic marine habitat off Central and Northern California.	X-	--	--	--	---	--	---	-X
	E	3	Two invited presentations at 1990 CalCOFI Symposium on Fishery Oceancgraphy.	O							
	E	4	Four presentations at Fall Annual Meeting of the American Geophysical Union.	D							
	E	5	Series of papers on wind-driven coastal flow.	O							
	E	6	Paper on demersal recruitment and seasonal scale environmental signals			M					
	E	7	Paper on mechanism for advection of upwelled water into Monterey Bay			M					
	M	8	Publication (NOAA Tech. Memo) of hydrographic data atlases for David Starr Jordan Groundfish Surveys 8804 and 8904(with Tiburon)			M					
	M	9	Completion of direct PFEG involvement in NMFS Antarctic Program (paper in Liege Colloquium)	D							
	M	10	Establishment of new procedures and responsibilities for wetfish sampling, editing & data archiving (CDF&G, Coastal Division & PFEG)	N							
	M	11	Presentation of paper at 1990 CalCOFI Conference. Recruitment and age composition trends of jack mackerel in Southern California.	N							

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

FMC	REF.NO.	PAGE
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TASK#	M,A,E	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1C5BTO	M	12	Paper on variations in the condition factor of anchovy, mackerel and jack mackerel 1966-1988.		J						
	E	13	Paper on trends in the size composition of fishes taken in the partyboat and skiff fisheries.				A				
	M	14	Book on development and evaluation of environment-dependent albacore fishery model	X-	--	--	S				
	E	15	Manual of analysis of recruitment time series (IOC/SCOR Working Group, UNESCO/SCOR pub.)	X-	--	--	--	M			
	E	16	Improved methodology for anchovy estimation (with Nancy Lo)	N							
	M	17	Eastern boundary integrative fishery-environmental comparative summary (with Cury, Roy, Pauly, Durand, Glantz)						S		
	M	18	Book: Patterns in the Ocean; Physical--Biological Interactions Regulating the Dynamics of Marine Populations				A				
	E	19	Paper on LME's of California Current, Benguela Current and Patagonian Shelf	D							
	E	20	Series of tests for multidecadal trends corresponding to projected effects of global climate change	O-	-M						

NOAA FISHERIES
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RESOURCE SUMMARY

TITLE -> Logbook & NWHI Observer Program

TASK NUMBERS ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5VMS				
DIRECT LABOR	58.7				58.7
PERS. BENEFITS	15.3				15.3
TRAVEL	2.0				2.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	6.0				6.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	7.6				7.6
SUPPLIES/MATERIAL	6.8				6.8
EQUIPMENT	4.5				4.5
GRANTS	0.0				0.0
TOTALS	100.0				100.0
FTE (FTP)	0.0				0.0
FTE (OTFTP)	2.0				2.0

STRATEGIC PLAN
GOAL #: 4 OBJ #: 3

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTER
0	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Longline Lgbk & NWHI Observ.	Hon. Lab.	3.0	145.0	S. Pooley	Information Analysis

A. Problem Statement/Objectives: To monitor the Hawaii commercial longline fishery and acquire scientific information on fish catch and effort. To acquire scientific information on possible interactions between commercial fishing boats and protected species in the Northwestern Hawaiian Islands.

B. Methodology: Deploy, retrieve, and computerize logbooks required of all longline vessels fishing in the western Pacific EEZ. Ensure quality control through interaction with fishing vessel captains. Acquire economic information when possible through informal interview.

Field scientific observers on domestic longline and bottomfish commercial fishing vessels operating in waters around the NWHI. Observers are required to monitor fishing operations, record any interactions with marine mammals and sea birds, record fishing catch and effort data, and take biological samples under a specified protocol. Observer placement is determined jointly by the Honolulu Laboratory and the Pacific Area Office.

C. Product/Services: Basic catch and effort information on pelagic longline fishing. Quarterly reports summarizing fishing effort and total catch by major fishing areas.

Detailed scientific data on fishing operations. Confidential reports on each trip. Summary (non-confidential) report on groups of trips (5 or more).

D. Clients: Honolulu Laboratory's Insular and Pelagic investigations. Western Pacific Fishery Management Council. Commercial fishing industry.

Southwest Region's marine mammal protection division. Honolulu Laboratory's MMES program. U.S. Fish & Wildlife Service. General public.

E. Contracts: Observers may be fielded under existing or modified observer contracts through Seattle NMFS.

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NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
TEMPORARIES:				
1. DOLLARS, ROBERT A.	BIOLOGICAL TECHNICIAN	GS-5/1	50	8L1A5VMS
2. CZYZ, JOHN J.	COMPUTER CLERK	GS-4/1	50	8L1A5VMS
3. FLEMING, INGLE	LOGBOOK TECHNICIAN	GS-4/1	100	8L1A5VMS
4. TBN	LOGBOOK BIOLOGIST	GS-9/1	50	8L1A5VMS

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A5VMS	A	1	DEPLOY AND COLLECT LOGBOOKS	X	X	X	X				
	A	2	COMPILE SUMMARY REPORT	X	X	X	X				
	A	3	COMPILE DATA	X	X	X	X				
	A	1	FIELD OBSERVERS	X	X	X	X				
	A	2	PREPARE TRIP REPORTS	X	X	X	X				
	E	3	PREPARE SUMMARY REPORT				X				
	A	4	COMPILE DATA	X	X	X	X				

RESOURCE SUMMARY

NOAA
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STRATEGIC PLAN
GOAL #: 3 OBJ #: 3

TITLE ->	Heard Island Experiment				
TASK NAMES ->	Heard Isl. Study				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8K6BNCOO				
DIRECT LABOR	23.4				23.4
PERS. BENEFITS	2.1				2.1
TRAVEL	22.0				22.0
TRANSPORTATION	0				0
RENT, COMM., UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	0				0
SUPPLIES/MATERIAL	5.0				5.0
EQUIPMENT	9.8				9.8
GRANTS	0				0
TOTALS	62.3				62.3
FTE (FTP)	0				0
FTE (OTFTP)	0.5				0.5
APPROVAL SIGNATURE					HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Heard Island Experiment	SWC	0.0	62.3	D. DeMaster	Res. Inf, Info. Anal. & Diss.

A. PROBLEM STATEMENT/OBJECTIVE: This project is an ancillary study to a feasibility study on whether acoustics can be used to measure global warming on a decadal time scale. The main program, co-sponsored by NOAA, NSF, DOE, OUR, and several international agencies is based on using the travel time of a 57 hz tone in water as an index to changes in average water temperature in the sound channel (1000 meter depth). The project was successfully carried out in January 1991.

B. METHODOLOGY/APPROACH: The potential harrassment of marine mammals during the transmission cycle of the acoustic tone was monitored by doing visual surveys for changes in the abundance, distribution, and behavior of animals before, during, and after the signal and by monitoring changes in underwater vocalizations before and after each transmission.

C. PRODUCT/SERVICES: Report to be reviewed by panel of experts, as required by MMPA permit in August of 1991.

D. CLIENTS: F/PR - Permit Office, NOS, DOE, NSF, OUR, environmental community.

E. CONTRACTS: N/A

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8K6BNCOO	E	1	Conduct at sea surveys near and around Heard Island		J						
8K6BNCOO	A	2	Prepare cruise report for Amy and Cory		M						
8K6BNCOO	M	3	Participate in workshop to review results				A				

FORM 1

NOAA FISHERIES
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STRATEGIC PLAN
GOAL #: 4 OBJ #: 2

RESOURCE SUMMARY					
TITLE ->	MARINE TURTLE RESEARCH				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8R1B3V00	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	11.0				11.0
PERS. BENEFITS	1.5				1.5
TRAVEL	3.0				3.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	25.0				25.0
SUPPLIES/MATERIAL	3.5				3.5
EQUIPMENT	6.0				6.0
GRANTS	0.0				0.0
TOTALS ->	50.0				50.0
FTE (FTP)	0.0				0.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MARINE TURTLE RESEARCH	HON. LAB.	0.5	50.0	G. BALAZS	RESRCH & INFO. DISSEM.

A. PROBLEM STATEMENT/OBJECTIVE: NOAA IS RESPONSIBLE FOR THE RESEARCH, MONITORING AND RECOVERY OF MARINE TURTLE POPULATIONS LISTED UNDER THE ESA. GREEN TURTLES IN THE HAWAIIAN POPULATION ARE AFFLICTED WITH AN ENIGMATIC FIBROPAPILLOMA DISEASE THAT HAS REACHED EPIDEMIC PROPORTIONS. A SIMILAR OUTBREAK OF THE DISEASE HAS OCCURRED ALMOST SIMULTANEOUSLY IN FLORIDA. THE CAUSE OF THE DISEASE, AND THE REASON(S) FOR ITS INCREASING INCIDENCE DURING RECENT YEARS ARE UNKNOWN. ADDITIONAL MONITORING AND OTHER RESEARCH EFFORTS NEED TO BE DIRECTED TOWARD THIS PROBLEM. THE WORK TO BE CONDUCTED IN THIS TASK COMPLEMENTS CURRENTLY FUNDED ACTIVITIES AIMED AT ELUCIDATING THE EPIDEMIOLOGY OF THE DISEASE AND IMPACTS TO THE POPULATION.

B. METHODOLOGY/APPROACH: THE INCREASED POPULATION OF MONITORING OF THIS DISEASE WILL INCLUDE THE CAPTURE, TAGGING AND HEALTH SCREEN OF TURTLES AT SEVERAL PREVIOUSLY UNSTUDIED SITES. SONIC AND RADIO TRACKING OF SELECTED TUMOR AND NONTUMOR TURTLES WILL BE UNDERTAKEN IN RESIDENT NEARSHORE MARINE HABITATS TO GAUGE PHYSIOLOGICAL FITNESS OF DISEASED TURTLES. TUMOR TISSUES AND BLOOD SAMPLES WILL BE COLLECTED FOR COOPERATIVE DISEASE RESEARCH PROGRAMS UNDERWAY IN FLORIDA AND ELSEWHERE.

C. PRODUCT/SERVICES: PRODUCTS ARE TECHNICAL REPORTS AND DATA BASES OF TUMOR INCIDENCE, SEVERITY, AND PHYSIOLOGICAL CHARACTERISTICS NECESSARY FOR BETTER UNDERSTANDING THE DISEASE AND FOR RECOVERY/MITIGATION STRATEGIES.

D. CLIENTS: PRIMARY CLIENTS ARE NOAA, USFWS AND STATE OF HAWAII PROTECTED SPECIES MANAGERS, THE HAWAIIAN SEA TURTLE RECOVERY TEAM, VARIOUS PUBLIC (HUMAN) HEALTH AGENCIES, AND VETERINARY PATHOLOGISTS CURRENTLY INTERESTED AND DOING CONCOMITANT RESEARCH ON THIS MARINE TURTLE PROBLEM.

E. CONTRACTS: VIRUSES AS THE ETIOLOGICAL AGENT FOR FIBROPAPILLOMA ($10.0K); PARASITES AS ETIOLOGICAL AGENTS FOR FIBROPAPILLOMA ($7.0K); COMMERCIAL FISHERMAN TURTLE TAGGING AND MONITORING ($8.0K).

FORM 3

NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
TEMPORARIES:				
1. TBN	BIOLOGICAL TECHNICIAN	GS-6/1	100	8R1B3V00

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91 1	FY 91 2	FY 91 3	FY 91 4	92 1	92 2	93 1	93 2
8R1B3V00	A		EXPAND MONITORING AND DISEASE INVESTIGATIONS OF GREEN TURTLE AGGREGATIONS AFFLICTED WITH FIBROPAPILLOMA		J	-	-	M			
	E		INITIATE CONTRACTS WITH PATHOLOGISTS TO EXAMINE ETIOLOGIC AGENTS OF VIRUSES AND PARASITES RELEVANT TO FIBROPAPILLOMA DISEASE		J						
	M		TECHNICAL REPORT ON VIRUSES IN THE ETIOLOGIC ROLE OF FIBROPAPILLOMA DISEASE					F			
	E		SUMMARY REPORT ON THE ROLE OF PARASITES AS ETIOLOGIC AGENTS ON FIBROPAPILLOMA DISEASE					F			

FORM 1
RESOURCE SUMMARY

NOAA
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STRATEGIC PLAN
GOAL #: 4 OBJ #: 2

TITLE ->	Coastal California Delphinid Survey			
TASK NAMES ->	Coast. Del. Srvy.				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5M03				
DIRECT LABOR	13.6				13.6
PERS. BENEFITS	1.2				1.2
TRAVEL	7.5				7.5
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	9.0				9.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	113.6				113.6
SUPPLIES/MATERIAL	2.0				2.0
EQUIPMENT	3.3				3.3
GRANTS	0.0				0.0
TOTALS	149.0				149.0
FTE (FTP)	0				0
FTE (OTFTP)	0.375				0.375
APPROVAL SIGNATURE					HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Coastal CA. Delphinid Svy.	SWC	0.375	149.0	J. Barlow	Res. info, info, Anal. & Disc.

A. PROBLEM STATEMENT/OBJECTIVE: This task is a new initiative funded by the Office of Protected Species. The purpose of this task is to provide reliable estimates of the abundance of dolphins in California Coastal waters. Dolphins in this area are subject to mortality in gillnet fisheries. Abundance estimates are needed to assess the significance of this mortality and to aid in setting future take quotas.

B. METHODOLOGY/APPROACH: An aerial survey will be flown from March-April 1990 to gather line transect data on the abundance of coastal dolphins. These data will be analyzed to make estimates of population size and to calculate the variance of those estimates.

C. PRODUCT/SERVICES: Products of the program will be used by NMFS offices in drafting management measures for dolphins caught in gillnet fisheries.

D. CLIENTS: Clients include NMFS regional offices who are responsible for management of marine mammals under the MMPA. Also interested in these data is the U.S. Minerals Management Service which must be able to assess the threat of oil spills on marine mammals.

E. CONTRACTS: Contract funds are for NOAA Aircraft Operations Center to provide aircraft for aerial survey

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Rick LeDuc	Biological Technician	GS/7/1	12.5	8L1A5MO3
James Carretta	Biological Technician	GS/5/1	12.5	8L1A5MO3
Carrie LeDuc	Biological Technician	GS/5/1	12.5	8L1A5MO3

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 91				92		93	
				1	2	3	4	1	2	1	2
8L1A5MO3	A	1	Conduct aerial census of cetaceans in coastal waters		X	D					
811A5MO3	E	2	Submit trip report for aerial census				S				

RESOURCE SUMMARY

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REIMBURSABLE

DATE	2/91	
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STRATEGIC PLAN
GOAL #: 4 OBJ #: 2

TITLE ->	Whale & Bottlenose Dolphin Pop. Estimation				
TASK NAMES ->	Whale & Bottl. Sur				
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5MO5				
DIRECT LABOR	0.0				0.0
PERS. BENEFITS	0.0				0.0
TRAVEL	0.0				0.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	9.0				9.0
SUPPLIES/MATERIAL	4.0				4.0
EQUIPMENT	0.0				0.0
GRANTS	65.0				65.0
TOTALS	78.0				78.0
FTE (FTP)	0.0				0.0
FTE (OTFTP)	0.0				0.0
APPROVAL SIGNATURE					HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTER
# FREE DAYS	

CROSS REFERENCES

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Whale & Bottlenose Dolphin Population Estimates	SWC	0	78.0	J. Barlow	Res. info, info, Anal. & Disc.

A. PROBLEM STATEMENT/OBJECTIVE: This is a new initiative funded this year by the Office of Protected species. The intent is to estimate the abundance of blue and humpback whales that feed in California waters and bottlenose dolphins which are resident in southern California. These 3 species are all subject to mortality in coastal gillnet fisheries. Both whale species are endangered under the ESA. This task will estimate the minimum population size of these species so that the impact of gillnet fishing mortality can be ascertained.

B. METHODOLOGY/APPROACH: A grant will be let for the whale research. Appropriate methods for making minimum abundance estimates will probably include photo-identification studies. Aerial surveys will be used to obtain minimum counts of bottlenose dolphins along the southern California coast.

C. PRODUCT/SERVICES: Minimum population estimates will be provided to NMFS regional office to aid in management of these species.

D. CLIENTS: Clients include NMFS regional offices who are responsible for management of marine mammals under the MMPA. Also interested in these data is the U.S. Minerals Management Service which must be able to assess the threat of oil spills on marine mammals.

E. CONTRACTS: Charter aircraft will be contracted for aerial surveys of bottlenose dolphins. Grant will be let for blue and humpback whale research.

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
NONE				

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	989	4 OF 4

MILESTONE ARRAY

				FY 91				92		93	
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	1	2	3	4	1	2	1	2
8L1A5MO5	A	1	Conduct bimonthly aerial surveys of bottlenose dolphins.			X	X	X	X		
8L1A5MO5	E	2	Prepare report on abundance of coastal bottlenose dolphins.						F		
8L1A5MO5	E	3	Submit request for proposals of blue and humpback whale research		M						
8L1A5MO5	E	4	Choose grant recipient for blue and humpback whale research			J					
8L1A5MO5	E	5	Receive final report of blue and humpback whale research.						A		

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

REIMBURSABLE

DATE	25 JANUARY 1991	
FMC	REF. NO.	PAGE
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RESOURCE SUMMARY

TITLE: Marine Debris (Monk Seal) & "Ghost Fishing" Lobst.

TASK NAMES ->	991 Ghost F	990 HA MS			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5B70	8L1A5B7G			
DIRECT LABOR	5.5	10.0			15.5
PERS. BENEFITS	0.7	1.3			2.0
TRAVEL	0.0	7.0			7.0
TRANSPORTATION	0.0	0.0			0.0
RENT,COMM.,UTIL.	0.0	0.0			0.0
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	0.0	0.0			0.0
SUPPLIES/MATERIAL	6.8	6.7			13.5
EQUIPMENT	7.0	0.0			7.0
GRANTS	0.0	0.0			0.0
TOTALS ->	20.0	25.0			45.0
FTE (FTP)	0.0	0.0			0.0
FTE (OTFTP)	0.3	0.5			0.8

STRATEGIC PLAN
GOAL #: 4 OBJ #: 5

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	--
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWR	990/991	2 OF 4

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MARINE DEBRIS (MONK SEAL)	HON. LAB.	0.5	25.0	W. GILMARTIN	RESRCH & INFO. DISSEM.

A. PROBLEM STATEMENT/OBJECTIVE: MARINE DEBRIS IN THE NORTHWESTERN HAWAIIAN ISLANDS ENTANGLES AND INJURES AND KILLS HAWAIIAN MONK SEALS. THIS FUNDING SUPPLEMENTS OTHER PROGRAM FUNDS TO ALLOW BEACH DEBRIS CLEANUP AND RESCUE OF ENTANGLED SEALS.

B. METHODOLOGY/APPROACH: TO REDUCE PROBABILITY OF ENTANGLEMENT, FIELD CAMP PERSONNEL COLLECT LINES, NETS AND OTHER DEBRIS ITEMS FROM THE BEACHES OF THE MONK SEAL BREEDING ISLANDS. THESE ARE CATALOGED TO TYPE AND SIZE AND ARE THEN DESTROYED. FIELD PERSONNEL ALSO IDENTIFY ENTANGLED SEALS AND ATTEMPT TO RELEASE THEM. ALL FIVE MAJOR SEAL BREEDING ISLANDS WILL BE VISITED IN 1991 AND THE BEACHES CLEANED OF HAZARDOUS DEBRIS ITEMS.

C. PRODUCT/SERVICES: THE DEBRIS TYPES AND AMOUNTS WILL BE SUMMARIZED INTO NOAA ADMINISTRATIVE/TECHNICAL REPORTS. REDUCED SEAL ENTANGLEMENT AND INJURY OR DEATH ARE THE PRIMARY PRODUCTS.

D. CLIENTS: THE NMFS, U.S. FISH AND WILDLIFE SERVICE, MARINE MAMMAL COMMISSION, HAWAIIAN MONK SEAL RECOVERY TEAM, AND STATE OF HAWAII.

E. CONTRACTS: NONE.

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
TEMPORARIES:				
1. TBN	BIOLOGICAL TECHNICIAN	GS-4/1	30	8L1A6B70
2. TBN	BIOLOGICAL TECHNICIAN	GS-5/1	50	8L1A5B7G

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	990/991	4 OF 4

MILESTONE ARRAY

				FY 91				92		93	
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	1	2	3	4	1	2	1	2
8L1A5B7G	A		COLLECT, CATALOG AND DESTROY MARINE DEBRIS ON SEAL BREEDING ISLANDS			A	S				
	E		COMPLETE SUMMARY REPORT ON DEBRIS RECOVERED AND DESTROYED IN 1990			J					
	E		COMPLETE SUMMARY REPORT ON DEBRIS RECOVERED AND DESTROYED IN 1991					M			
8L1A5B70	A		CONDUCT FIELD AND LABORATORY TRIALS ON ESCAPEMENT OF LOBSTERS	O	J						
	M		WRITE MANUSCRIPT ON IMPACT FROM LOST TRAPS TO LOBSTER STOCKS		M						

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

REIMBURSABLE

DATE	25 JANUARY 1991	
FMC	REF. NO.	PAGE
SWR	990/991	1 OF 4

STRATEGIC PLAN

GOAL #: 4 OBJ #: 5

RESOURCE SUMMARY

TITLE	Marine Debris (Monk Seal) & "Ghost Fishing" Lobst.				
TASK NAMES ->	991 Ghost F	990 HA MS			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5B70	8L1A5B7G			
DIRECT LABOR	5.5	10.0			15.5
PERS. BENEFITS	0.7	1.3			2.0
TRAVEL	0.0	7.0			7.0
TRANSPORTATION	0.0	0.0			0.0
RENT, COMM., UTIL.	0.0	0.0			0.0
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	0.0	0.0			0.0
SUPPLIES/MATERIAL	6.8	6.7			13.5
EQUIPMENT	7.0	0.0			7.0
GRANTS	0.0	0.0			0.0
TOTALS ->	20.0	25.0			45.0
FTE (FTP)	0.0	0.0			0.0
FTE (OTFTP)	0.3	0.5			0.8

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	--
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	990/991	2 OF 4

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MARINE DEBRIS (MONK SEAL)	HON. LAB.	0.5	25.0	W. GILMARTIN	RESRCH & INFO. DISSEM.

A. PROBLEM STATEMENT/OBJECTIVE: MARINE DEBRIS IN THE NORTHWESTERN HAWAIIAN ISLANDS ENTANGLES AND INJURES AND KILLS HAWAIIAN MONK SEALS. THIS FUNDING SUPPLEMENTS OTHER PROGRAM FUNDS TO ALLOW BEACH DEBRIS CLEANUP AND RESCUE OF ENTANGLED SEALS.

B. METHODOLOGY/APPROACH: TO REDUCE PROBABILITY OF ENTANGLEMENT, FIELD CAMP PERSONNEL COLLECT LINES, NETS AND OTHER DEBRIS ITEMS FROM THE BEACHES OF THE MONK SEAL BREEDING ISLANDS. THESE ARE CATALOGED TO TYPE AND SIZE AND ARE THEN DESTROYED. FIELD PERSONNEL ALSO IDENTIFY ENTANGLED SEALS AND ATTEMPT TO RELEASE THEM. ALL FIVE MAJOR SEAL BREEDING ISLANDS WILL BE VISITED IN 1991 AND THE BEACHES CLEANED OF HAZARDOUS DEBRIS ITEMS.

C. PRODUCT/SERVICES: THE DEBRIS TYPES AND AMOUNTS WILL BE SUMMARIZED INTO NOAA ADMINISTRATIVE/TECHNICAL REPORTS. REDUCED SEAL ENTANGLEMENT AND INJURY OR DEATH ARE THE PRIMARY PRODUCTS.

D. CLIENTS: THE NMFS, U.S. FISH AND WILDLIFE SERVICE, MARINE MAMMAL COMMISSION, HAWAIIAN MONK SEAL RECOVERY TEAM, AND STATE OF HAWAII.

E. CONTRACTS: NONE.

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
TEMPORARIES:				
1. TBN	BIOLOGICAL TECHNICIAN	GS-4/1	30	8L1A6B70
2. TBN	BIOLOGICAL TECHNICIAN	GS-5/1	50	8L1A5B7G

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 91 1	2	3	4	92 1	2	93 1	2
8L1A5B7G	A		COLLECT, CATALOG AND DESTROY MARINE DEBRIS ON SEAL BREEDING ISLANDS			A	S				
	E		COMPLETE SUMMARY REPORT ON DEBRIS RECOVERED AND DESTROYED IN 1990			J					
	E		COMPLETE SUMMARY REPORT ON DEBRIS RECOVERED AND DESTROYED IN 1991					M			
8L1A5B70	A		CONDUCT FIELD AND LABORATORY TRIALS ON ESCAPEMENT OF LOBSTERS	O	J						
	M		WRITE MANUSCRIPT ON IMPACT FROM LOST TRAPS TO LOBSTER STOCKS		M						